Connecting via Winsock to STN

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	May 12	EXTEND option available in structure searching
NEWS 4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS 5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
NEWS 6	May 27	CAplus super roles and document types searchable in REGISTRY
NEWS 7	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
NEWS 8	Jun 28	ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG, and WATER from CSA now available on STN(R)
NEWS 9	Jul 12	BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 10	Jul 30	BEILSTEIN on STN workshop to be held August 24 in conjunction with the 228th ACS National Meeting
NEWS 11	AUG 02	IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 12	AUG 02	CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 13	AUG 02	STN User Update to be held August 22 in conjunction with the 228th ACS National Meeting
NEWS 14	AUG 02	The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 15	AUG 04	Pricing for the Save Answers for SciFinder Wizard within STN Express with Discover! will change September 1, 2004

NEWS EXPRESS	JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 18:29:32 ON 16 AUG 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 18:29:37 ON 16 AUG 2004

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 AUG 2004 HIGHEST RN 727358-71-6
DICTIONARY FILE UPDATES: 15 AUG 2004 HIGHEST RN 727358-71-6

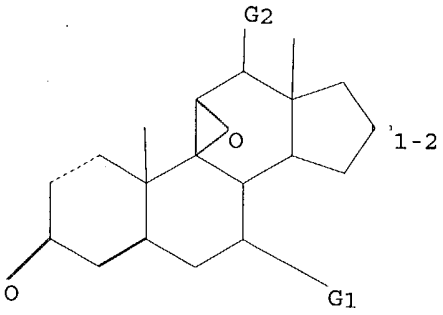
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

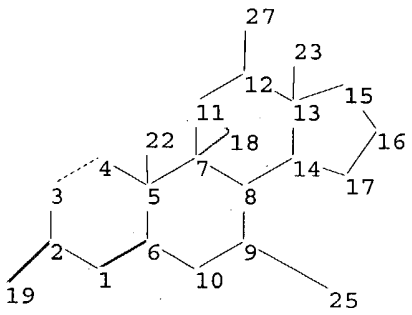
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\STNEXP4\QUERIES\10608101.str





chain nodes :
19 22 23 25 27
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
chain bonds :
2-19 5-22 9-25 12-27 13-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 7-11 7-18 8-9 8-14 9-10 11-12 11-18 12-13 13-14 13-15 14-17 15-16 16-17
exact/norm bonds :
1-2 1-6 2-3 2-19 3-4 4-5 5-6 5-7 6-10 7-8 7-11 7-18 8-9 8-14 9-10 9-25 11-12 11-18 12-13 12-27 13-14 13-15 14-17 15-16 16-17
exact bonds :
5-22 13-23

G1:C,O

G2:C,H,O,CN,X,Cb,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
22:CLASS 23:CLASS 25:CLASS 27:CLASS

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 18:29:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 500 TO ITERATE

100.0% PROCESSED 500 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8659 TO 11341
PROJECTED ANSWERS: 2 TO 124

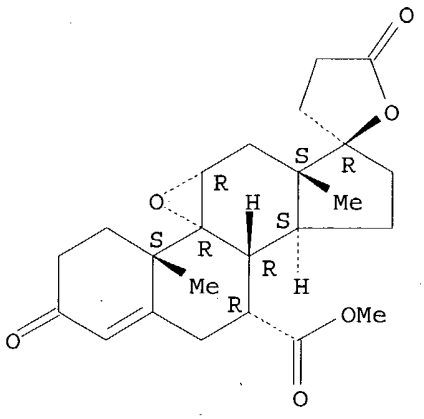
L2 2 SEA SSS SAM L1

=> d scan

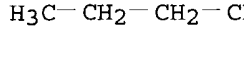
L2 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-butanol (9CI)
MF C24 H30 O6 . x C4 H10 O

CM 1

Absolute stereochemistry.



CM 2

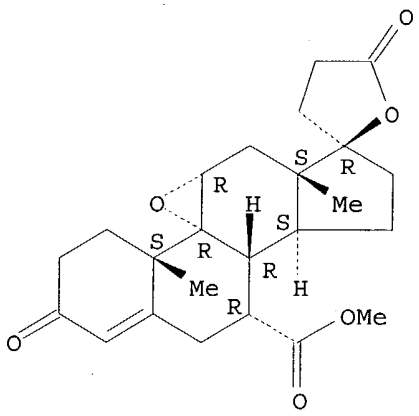


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

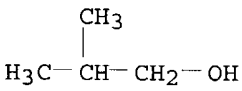
L2 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-methyl-1-propanol (9CI)
MF C24 H30 O6 . x C4 H10 O

CM 1

Absolute stereochemistry.



CM 2



ALL ANSWERS HAVE BEEN SCANNED

=> s l1 ful
FULL SEARCH INITIATED 18:30:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 9808 TO ITERATE

100.0% PROCESSED 9808 ITERATIONS 87 ANSWERS
SEARCH TIME: 00.00.01

L3 87 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	155.84	156.05

FILE 'CAPLUS' ENTERED AT 18:30:40 ON 16 AUG 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 16 Aug 2004 VOL 141 ISS 8
FILE LAST UPDATED: 15 Aug 2004 (20040815/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l3
L4          158 L3

=> s l4 and 9, 11-epoxy steroid
        1695054 9
         841516 11
         210558 EPOXY
           2439 EPOXIES
         210853 EPOXY
                  (EPOXY OR EPOXIES)
         102320 STEROID
         106860 STEROIDS
         157623 STEROID
                  (STEROID OR STEROIDS)
             17 9, 11-EPOXY STEROID
                  (9(W)11(W)EPOXY(W)STEROID)
L5            2 L4 AND 9, 11-EPOXY STEROID

=> s l4 and steroids
         106860 STEROIDS
L6           37 L4 AND STEROIDS

=> s l4 and 9, 11-epoxy
        1695054 9
         841516 11
         210558 EPOXY
           2439 EPOXIES
         210853 EPOXY
                  (EPOXY OR EPOXIES)
            210 9, 11-EPOXY
                  (9(W)11(W)EPOXY)
L7            6 L4 AND 9, 11-EPOXY

=> dup rem l5 l6 l7
```

PROCESSING COMPLETED FOR L5
PROCESSING COMPLETED FOR L6
PROCESSING COMPLETED FOR L7
L8 38 DUP REM L5 L6 L7 (7 DUPLICATES REMOVED)

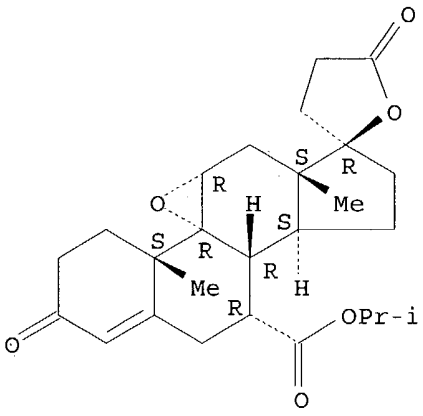
=> d l8 ibib hitstr abs 1-38

L8 ANSWER 1 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2004:220036 CAPLUS
DOCUMENT NUMBER: 140:247606
TITLE: Method to treat cardiac fibrosis with a combination therapy of an angiotensin II antagonist and an epoxy-steroidal aldosterone antagonist
INVENTOR(S): Egan, James J.; McMahon, Ellen G.; Olins, Gillian M.; Schuh, Joseph R.
PATENT ASSIGNEE(S): G.D. Searle & Co., USA
SOURCE: U.S. Pat. Appl. Publ., 146 pp., Cont.-in-part of U.S. Ser. No. 506,068, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004053903	A1	20040318	US 2003-371699	20030221
PRIORITY APPLN. INFO.:			US 1997-783404	B1 19970113
			US 1997-980734	B3 19971201
			US 1998-181586	B1 19981028
			US 1999-317237	B1 19990524
			US 2000-506068	B1 20000217

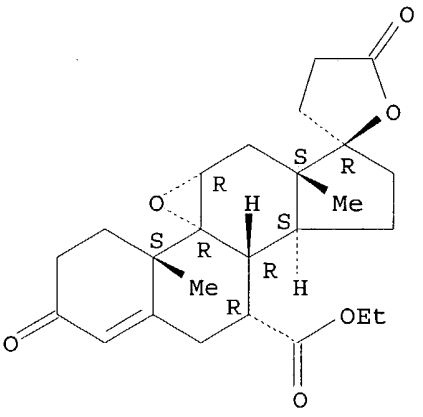
OTHER SOURCE(S): MARPAT 140:247606
IT **95716-76-0**, Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- **95716-78-2**, Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α) **95716-98-6**, Pregn-4-ene-7,21-dicarboxylic acid, 9,11,-epoxy-17-hydroxy-3-oxo-, 7-methyl ester monopotassium salt, (7α,11α,17α)- **95716-99-7**, Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester monopotassium salt, (7α,11α,17α)- **95717-02-5**, Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxodimethyl ester, (7α,11α,17α)- **107724-20-9**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(method to treat cardiac fibrosis and hypertrophy with a combination therapy of an angiotensin II (AngII) antagonist and an epoxy-steroidal aldosterone antagonist)
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



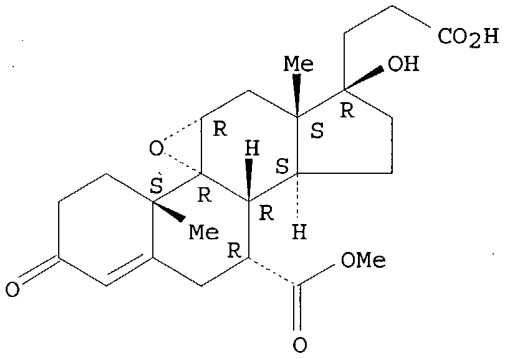
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

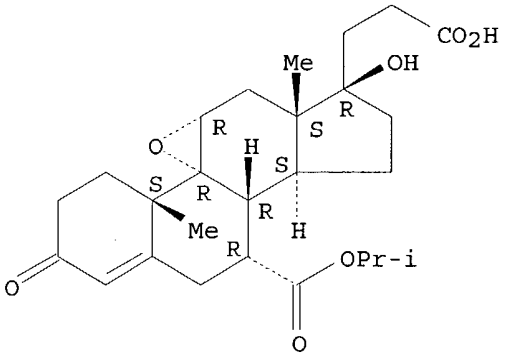
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

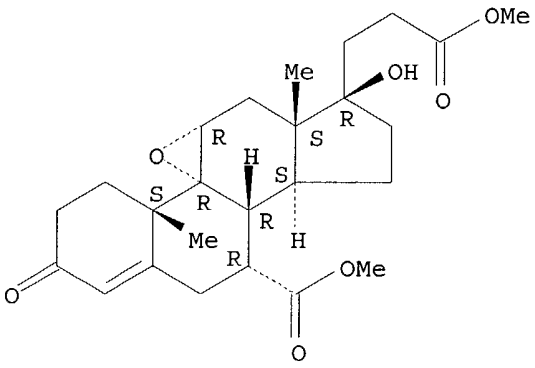
Absolute stereochemistry.



● K

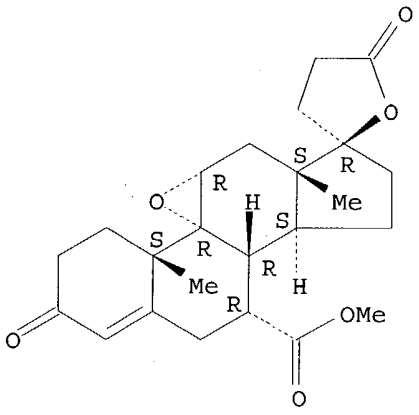
RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A therapeutic method is described for treating cardiac fibrosis or cardiac hypertrophy using a combination therapy comprising a therapeutically-effective amount of an epoxy-steroidal aldosterone receptor antagonist and a therapeutically-effective amount of an angiotensin II receptor antagonist. Preferred angiotensin II receptor antagonists are those compds. having high potency and bioavailability and which are characterized in having an imidazole or triazole moiety attached to a biphenylmethyl or pyridinyl/phenylmethyl moiety. Preferred epoxy-steroidal aldosterone receptor antagonists are 20-spiroxane steroidal compds. characterized by the presence of a 9α, 11α-substituted epoxy moiety. A preferred combination therapy includes the angiotensin II receptor antagonist 5-2-[5-[(3,5-dibutyl-1H-1,2,4-triazol-1-yl)methyl]-2-pyridinyl]phenyl-1H-tetrazole and the aldosterone receptor antagonist epoxymexrenone.

L8 ANSWER 2 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:182657 CAPLUS
DOCUMENT NUMBER: 140:210777
TITLE: Modulation of matrix metalloproteinase (MMP) activity with eplerenone or other aldosterone blockers

INVENTOR(S): Rudolph, Amy E.; McMahon, Ellen G.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004017906	A2	20040304	WO 2003-US26251	20030822
WO 2004017906	A3	20040701		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004048840	A1	20040311	US 2003-645564	20030822

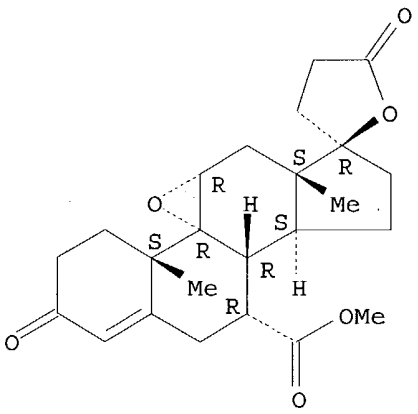
PRIORITY APPLN. INFO.: US 2002-405292P P 20020823

IT **107724-20-9**, Eplerenone
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(modulation of matrix metalloproteinase (MMP) activity with eplerenone or other aldosterone blockers)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The invention discloses a method for preventing an increase in matrix metalloproteinase (MMP) activity or reducing MMP activity in a subject in need thereof by administering to the subject a therapeutically effective amount of a selective aldosterone blocker. More particularly, the invention is directed to attenuating or preventing an increase in MMP activity

comprising administering eplerenone, or derivs. thereof. Therefore, the invention provides a method to treat patients who have symptoms of or have had symptoms of a condition selected from the group consisting of heart failure, renal disease, stroke, diabetes and syndrome X.

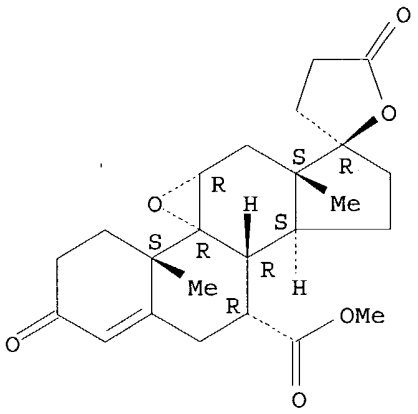
L8 ANSWER 3 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:414628 CAPLUS
DOCUMENT NUMBER: 140:423864
TITLE: Processes for preparing C-7 substituted **steroids** from 5-androsten-3β-ol-17-one
INVENTOR(S): Wuts, Peter Guillaume Marie
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 23 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004097475	A1	20040520	US 2003-392945	20030321
WO 2004043986	A1	20040527	WO 2003-US7284	20030321

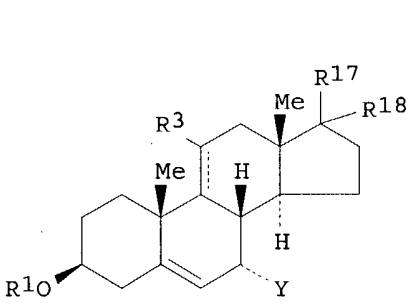
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-424488P P 20021107
OTHER SOURCE(S): CASREACT 140:423864; MARPAT 140:423864
IT **107724-20-9P**, Eplerenone
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of C-7 substituted **steroids** from 5-androsten-3β-ol-17-one)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

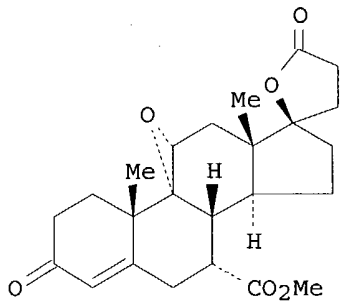
Absolute stereochemistry.



GI



II



V

AB The present invention discloses a process for the transformation of 5-androsten-3β-ol-17-one (I) to C-7 substituted **steroids**, such as II [R1 = H, COR2; R2 = alkyl, alkoxy; R3 = H, OR1; R17R18 = O, lactone; Y = CN, CH2CH:CH2, 5-(C1-6-alkyl)-2-furyl, 1-(C1-6-alkyl)-2-pyrrolyl, CHR4C(O)aryl, CHR4C(O)alkyl, CHR4C(O)X-aryl, CHR4C(O)X-alkyl; R4 = alkyl, aryl; X = O, S, dashed bond = single bond or double bond]. Thus, bioconversion of I to 5-androsten-3β,7β-diol-17-one (III) was performed using a submerged culture of Diplodia gossypina ATCC 20571. III was subsequently converted to 5-androsten-3β,7β,11α-triol-17-one (IV) using a submerged culture of Aspergillus ochraceus ATCC 18500. IV can also be obtained from II using a submerged culture of Absidia coerulea ATCC 6647. These intermediates are useful in the preparation of eplerenone (V).

L8 ANSWER 4 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:372862 CAPLUS
DOCUMENT NUMBER: 140:391400
TITLE: Processes for preparing 7-carboxy substituted **steroids** and intermediates thereof from 3β,7β,11α-trihydroxy-androst-5-en-17-one and other **steroids**
INVENTOR(S): Marie, Wuts Peter Guillaume
PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 25 pp.
CODEN: USXXCO

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004087562	A1	20040506	US 2003-392956	20030321
WO 2004043987	A1	20040527	WO 2003-US7285	20030321

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

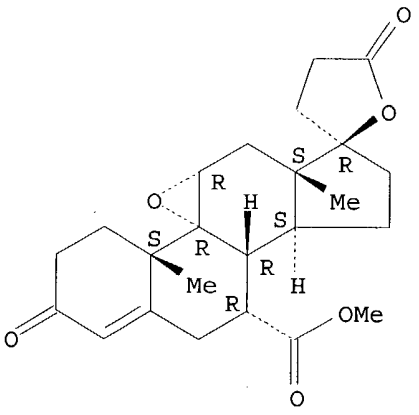
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-424102P P 20021106
OTHER SOURCE(S): CASREACT 140:391400; MARPAT 140:391400

IT **107724-20-9P**, Eplerenone
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of 7-carboxy substituted **steroids** and intermediates thereof from trihydroxyandrostenone and other **steroids**)

RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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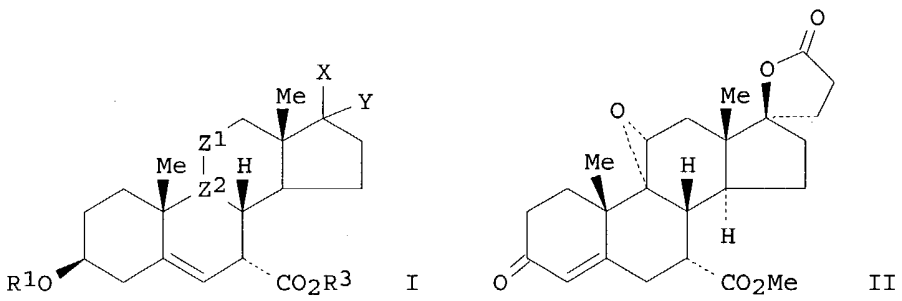

AB The present invention relates to processes for the preparation of 7-carboxy substituted steroid compds. and intermediates thereof, such as I [R1 = H, COR4 ; R3 = alkyl; R4 = alkyl, alkoxy; Z1 = CH2, CHOCOR4 (wherein OCOR4 is in the α configuration); Z2 = CH; Z1Z2= double bond; X = OH; Y = C.tplbond.CH; XY = :O, OCOCH2CH2; OCH(OH)CH2CH2]. Particularly, the invention is directed to novel and advantageous methods for the preparation of eplerenone (II). Thus, II was prepared via a multistep synthetic sequence starting from androst-5-en-3β-ol-17-one.

L8 ANSWER 5 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2
ACCESSION NUMBER: 2003:472394 CAPLUS
DOCUMENT NUMBER: 139:31256
TITLE: Methods and compositions for treating ophthalmic disorders with epoxy-steroidal aldosterone receptor antagonists
INVENTOR(S): Aiken, James W.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 68 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003049745	A1	20030619	WO 2002-US39807	20021212
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003158162	A1	20030821	US 2002-317650	20021212
PRIORITY APPLN. INFO.:			US 2001-341033P P	20011212

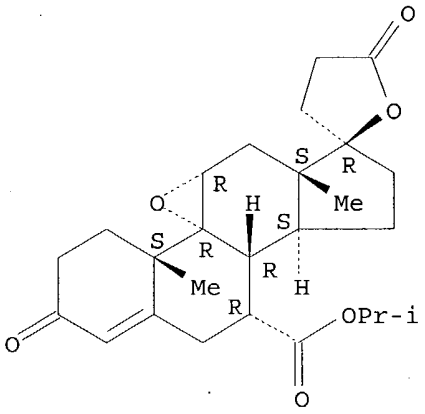
IT **95716-76-0 95716-78-2 95716-98-6**
95716-99-7 95717-02-5 107724-20-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(methods and compns. for treating ophthalmic disorders with

epoxy-steroidal aldosterone receptor antagonists)

RN 95716-76-0 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

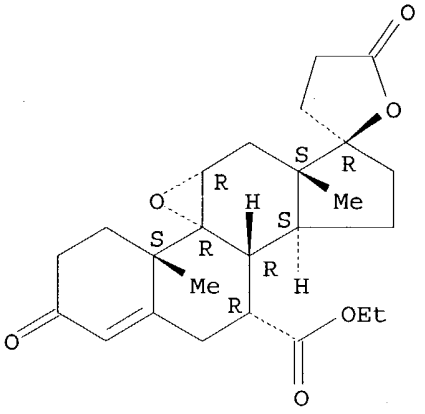
Absolute stereochemistry. Rotation (-).



RN 95716-78-2 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

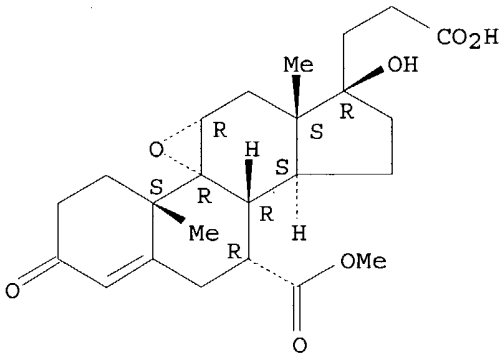
Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

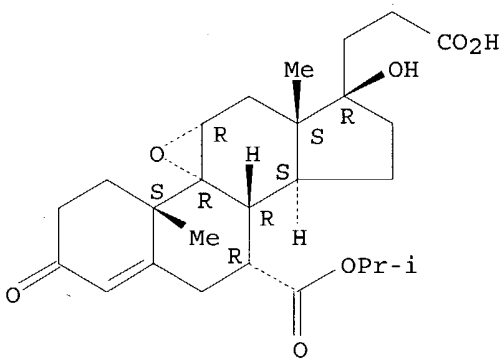
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

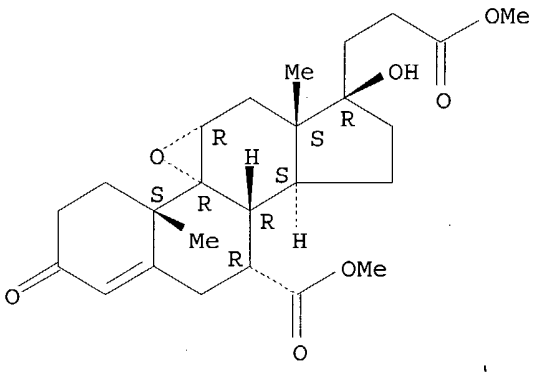
Absolute stereochemistry.



● K

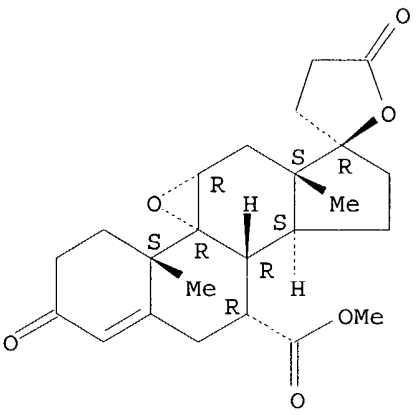
RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A method for treating or preventing ophthalmic disorders comprising the administration of one or more aldosterone receptor antagonists that contain a 9,11-epoxy moiety, such as eplerenone is disclosed. The method results in a reduction of intraocular pressure which treats or prevents the ophthalmic disorders. The epoxysteroid compds. can be co-administered with cytoskeletal disruptors, prostaglandin compds. and/or antiglaucoma agents. Among the disorders are intraocular hypertension, glaucoma, low tension glaucoma, age-related macula degeneration (AMD), macular edema, and diabetic retinopathy. As glucocorticoids and mineralocorticoids also cause the retention of ions, such as sodium and potassium, where aldosterone receptors are located, aldosterone receptor antagonists that contain a 9,11-epoxy moiety, such as eplerenone, also can be administered to modulate the intraocular concentration of ions. Thus, aldosterone receptor antagonists can be administered to maintain an intraocular ionic environment that is beneficial to intraocular cell survival.
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:796726 CAPLUS

DOCUMENT NUMBER: 139:307925
TITLE: Process to prepare eplerenone and its intermediates from Δ9-canrenone and other pregnanes
INVENTOR(S): Pearlman, Bruce Allen; Padilla, Amphlett Greg; Havens, Jeffrey L.; Mackey, Sonja S.; Wu, Haifeng
PATENT ASSIGNEE(S): Pharmacia & Upjohn Company, USA
SOURCE: PCT Int. Appl., 429 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082895	A2	20031009	WO 2003-US7793	20030321
WO 2003082895	A3	20040422		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003232981	A1	20031218	US 2003-392833	20030321
US 2004024202	A1	20040205	US 2003-392857	20030321
WO 2004037844	A1	20040506	WO 2003-US29923	20030919
WO 2004037844	C1	20040610		
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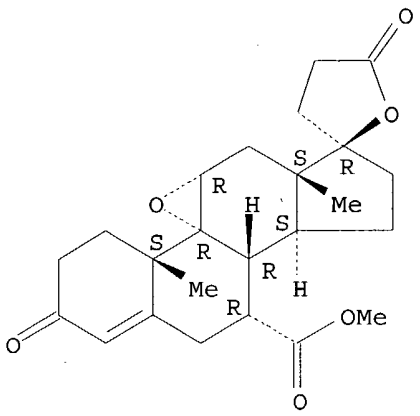
US 2004127702	A1	20040701	US 2003-666175	20030919
PRIORITY APPLN. INFO.:			US 2002-366784P P	20020322
			US 2002-411874P P	20020919
			US 2002-425596P P	20021112
			US 2003-392833 A	20030321

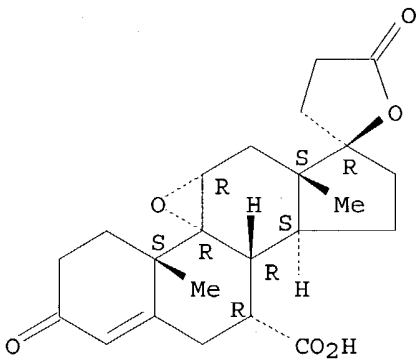
OTHER SOURCE(S): CASREACT 139:307925; MARPAT 139:307925
IT **107724-20-9P**, Eplerenone
RL: PNU (Preparation, unclassified); PREP (Preparation)
(preparation of eplerenone and its intermediates from Δ9-canrenone and other pregnanes)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **209253-82-7P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of eplerenone and its intermediates from Δ9-canrenone and other pregnanes)
RN 209253-82-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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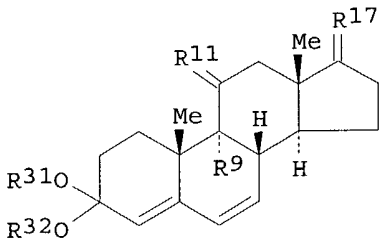

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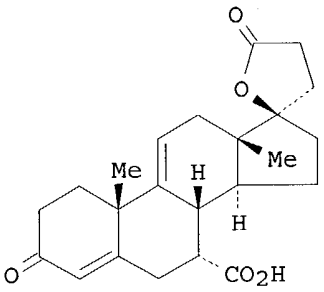

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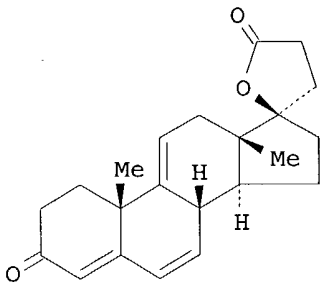

III

AB The present invention involves novel intermediates I [R9 = H, OH, O-PG, F; PG = SiMe3, SiEt3, Ac, CHO; R11 = :O, H2, αR11-1βR11-2, R11-5R11-6; R11-1 = H, OR11-3; R11-2 = H, OR11-4; R11-3 = H, PG; R11-4 = H, PG; R11-5R9 = bond, R11-6 = H or R11-6R9 = bond, R11-5 = H; R11-7R9 = O; R11-8 = H; R17 = :O, αR17-1βR17-2, αR17-3βR17-4, αR17-5βR17-6, αR17-7βR17-8, OCH(OR17-9)CH2CH2, αR17-11βR17-12; R17-1 = H, C.tplbond.CH, CN, C.tplbond.CCH2αR17-1-1, C.tplbond.CCH2O-PG, CH2CH2CO2-; R17-2 = OH; R17-3 = OH; R17-4 = COMe, COCH2OH, COCH2OC(:O)(CH2)0-3Me; R17-5R17-6 = α-CH2O-β; R17-7R17-8 = α-OC(:O)CH2CH2-β; R17-9 = H, C1-3-alkyl; R17-11 = (CH2)1-2CH:CH2; R17-12 = OH; R17-1-1 = H, Si(R17-1-2)3; R17-1-2 = C1-4-alkyl, CH(OEt)Me, THP], including an 7α-substituted steroid, and various novel processes which are used to prepare known intermediates useful in the production of eplerenone, a pharmaceutical agent. Thus, pregnadienone spirolactone II was prepared from Δ9-canrenone (III) via conjugate addition of 2-methylfuran in MeNO2 containing BF3·OEt2, ring cleavage with dibromantin in aqueous THF containing KOAc, ozonolysis (O3/O2) in CH2Cl2/O2(CHMe2)2 with Me2S quenching in CHCl3 and oxidation in CHCl3 with H2O2 in H2O containing KHCO3.

L8 ANSWER 7 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:796725 CAPLUS
DOCUMENT NUMBER: 139:307923
TITLE: C-17 spirolactonization and 6,7 oxidation of **steroids**
INVENTOR(S): Miller, Paula C.; Pozzo, Mark J.; Chou, Shine K.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 169 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003082894	A2	20031009	WO 2003-US7792	20030321
WO 2003082894	A3	20040415		
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US 2003232981	A1	20031218	US 2003-392833	20030321
US 2004024202	A1	20040205	US 2003-392857	20030321
WO 2004037844	A1	20040506	WO 2003-US29923	20030919
WO 2004037844	C1	20040610		
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US 2004127702	A1	20040701	US 2003-666175	20030919
PRIORITY APPLN. INFO.:			US 2002-366784P	P 20020322
			US 2002-411874P	P 20020919
			US 2002-425596P	P 20021112
			US 2003-392833	A 20030321

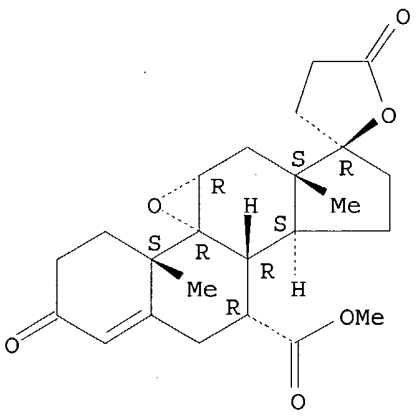
OTHER SOURCE(S): CASREACT 139:307923; MARPAT 139:307923

IT **107724-20-9P**, Eplerenone
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(C-17 spirolactonization and 6,7 oxidation of **steroids**)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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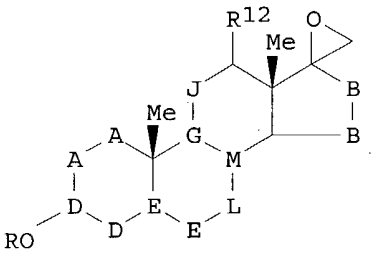

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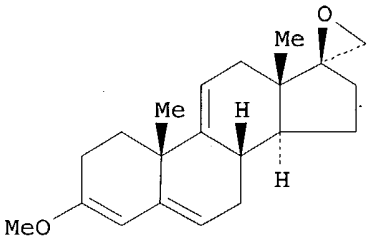
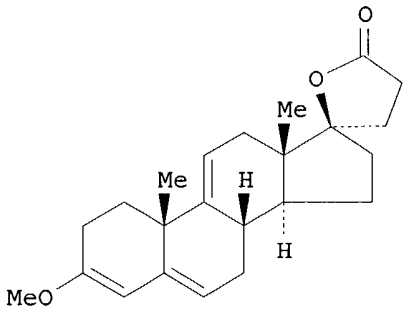


II



III

AB The **steroids** I (R = alkyl; A-A = CHR1-CHR2, CR1=CR2; B-B = CHR15-CHR16; G-J = CR9-CHR11 or C=CR11; D-D = CH-CHR4, C=CR4; E-E = CH-CHR6 or C=CR6; L-M = CHR7-CH, CR7=C; R12, R1, R2, R15, R16, R9, R11, R4, R6, R7 = H, halo, OH, alkyl, alkoxy, acyl, HOCH2, alkoxyalkyl, hydroxycarbonyl, alkoxycarbonyl, acyloxyalkyl, cyano, nitro, thioalkyl, aryl, aryloxy) in prepared via processes for the C-17 spirolactonization and 6,7 oxidation of steroid compds. In certain preferred embodiments, the present invention provides for the preparation of steroid compds. which are useful in the preparation of Me hydrogen 9,11α-epoxy-17α-hydroxy-3-oxopregn-4-ene-7α,21-dicarboxylate γ-lactone (otherwise referred to as eplerenone or epoxymexrenone). Thus, treatment of 3-methoxyandrosta-3,5,9(11)-trien-17-one with trimethylsulfonium methylsulfate in a reactor gave the oxirane derivative II, which reacted with

di-Et malonate followed by decarboxylation to give the lactone III, which was converted to Δ9(11)-canrenone by an oxidation process using chloranil.

L8 ANSWER 8 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:777633 CAPLUS
DOCUMENT NUMBER: 139:281281
TITLE: Combination of an aldosterone receptor antagonist and a fibric acid derivative
INVENTOR(S): Keller, Bradley T.; McMahon, Ellen G.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

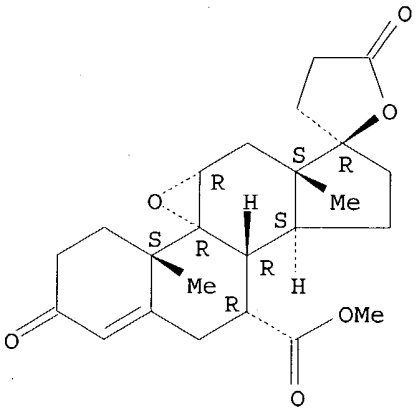
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003080118	A2	20031002	WO 2003-US8206	20030318
WO 2003080118	A3	20040115		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-365242P P 20020318
IT **107724-20-9**, Eplerenone
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(combination of aldosterone receptor antagonist and fibric acid derivative)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Novel methods and combinations for the treatment and/or prophylaxis of a pathol. condition in a subject, comprise the administration of 1 or more aldosterone receptor antagonists and 1 or more fibric acid derivs. and the combinations comprise 1 or more of the aldosterone receptor antagonists and the fibric acid derivs. Thus, a combination of eplerenone and gemfibrozil significantly increases the blood flow response to acetylcholine. Tablets contained eplerenone 25, gemfibrozil 300, lactose 54, microcryst. cellulose 15, HPMC 3, Croscarmellose sodium 2, and Mg stearate 1 mg.

L8 ANSWER 9 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:777601 CAPLUS
DOCUMENT NUMBER: 139:296974
TITLE: Combination of an aldosterone receptor antagonist and a bile acid sequestering agent
INVENTOR(S): Keller, Bradley T.; McMahon, Ellen G.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 84 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003080069	A1	20031002	WO 2003-US8207	20030318
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003219401	A1	20031127	US 2003-391343	20030318

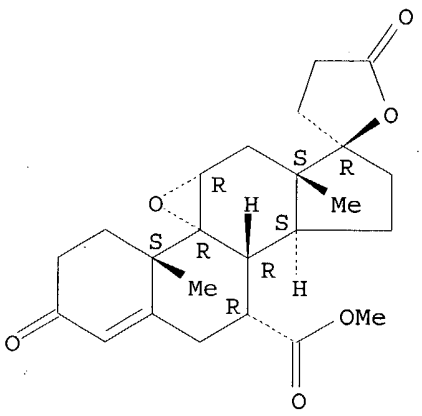
PRIORITY APPLN. INFO.: US 2002-365390P P 20020318
IT **107724-20-9**, Eplerenone
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)
(combination of aldosterone receptor antagonist and bile acid sequestering agent)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Novel methods and combinations for the treatment and/or prophylaxis of a pathol. condition in a subject, comprise the administration of 1 or more aldosterone receptor antagonists and one or more, bile acid sequestering agents and the combinations comprise 1 or more of the aldosterone receptor antagonists and 1 or more of the bile acid sequestering agents. A combination of eplerenone and colesevelam significantly increases the forearm blood flow response to acetylcholine with an associated increase in vasoconstriction. Thus, tablets contained eplerenone 50, colestipol 2000, lactose 69.5, microcryst. cellulose 15, colloidal silica 0.5, talc 2.5, Croscarmellose sodium 2, and Mg stearate 0.5 mg.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:777600 CAPLUS
DOCUMENT NUMBER: 139:281278
TITLE: Combination of an aldosterone receptor antagonist and nicotinic acid or its derivatives
INVENTOR(S): Keller, Bradley T.; McMahon, Ellen G.; Krul, Elaine S.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 85 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003080068	A1	20031002	WO 2003-US8201	20030318

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2004067918 A1 20040408 US 2003-391212 20030318

PRIORITY APPLN. INFO.: US 2002-365269P P 20020318

IT **107724-20-9**, Eplerenone

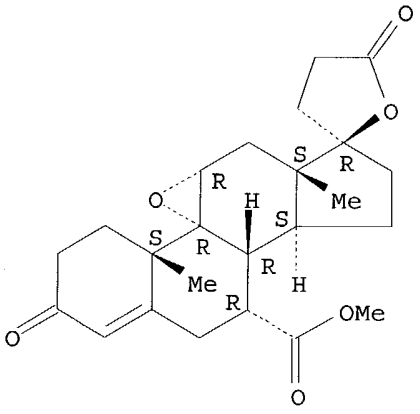
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(combination of aldosterone receptor antagonist and nicotinic acid or its derivs.)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Novel methods and combinations for the treatment and/or prophylaxis of a pathol. condition in a subject comprise the administration of 1 or more aldosterone receptor antagonists and 1 or more, nicotinic acid derivs. and the combinations comprise 1 or more of the aldosterone receptor antagonists and 1 or more of the nicotinic acid derivs. Thus, a tablet contained eplerenone 100, niacin 250, lactose 54, microcryst. cellulose 15, HPMC 3, Croscarmellose sodium 2, and Mg stearate 1 mg. A combination of eplerenone and niacin improves the endothelial function.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:610301 CAPLUS

DOCUMENT NUMBER: 139:159932

TITLE: Aldosterone antagonist and nonsteroidal antiinflammatory agent combination therapy to prevent or treat cardiovascular disorders and inflammation-related disorders

INVENTOR(S): McMahon, Ellen G.; Rocha, Ricardo

PATENT ASSIGNEE(S): Pharmacia Corporation, USA

SOURCE: PCT Int. Appl., 158 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003063908	A1	20030807	WO 2003-US2923	20030130

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

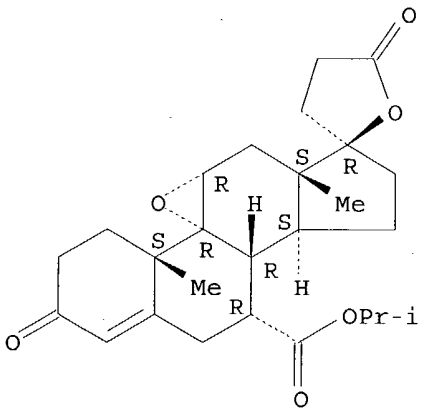
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-353008P P 20020130

IT **95716-76-0 95716-78-2 95716-98-6**
95716-99-7 95717-02-5 107724-20-9, Eplerenone
573652-78-5 573652-79-6 573652-80-9
573652-81-0 573652-82-1 573652-83-2
573652-84-3 573652-85-4 573652-86-5
573652-87-6 573652-88-7 573652-89-8
573652-90-1 573652-91-2 573652-92-3
573652-93-4 573652-94-5 573652-95-6
573652-96-7 573652-97-8 573652-98-9
573652-99-0 573653-00-6 573653-01-7
573653-02-8 573653-03-9
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aldosterone antagonist-NSAID combination therapy for cardiovascular disorders)

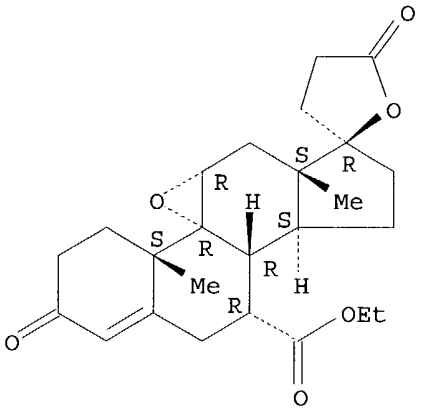
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



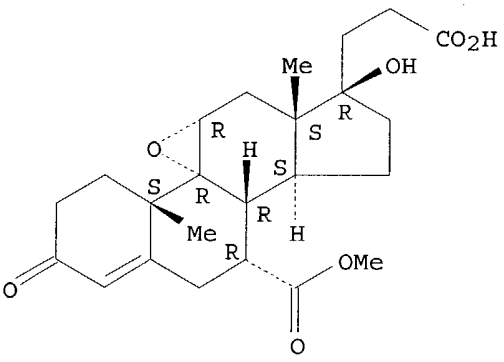
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

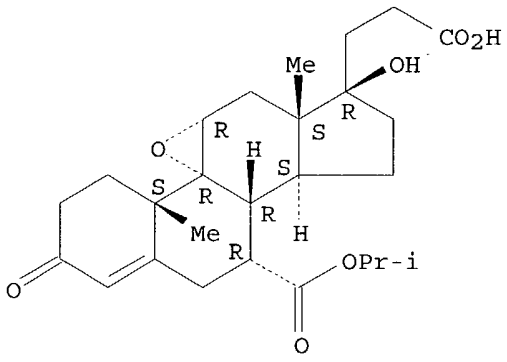
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

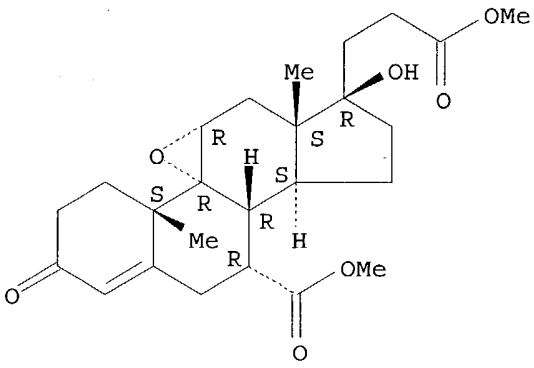
Absolute stereochemistry.



● K

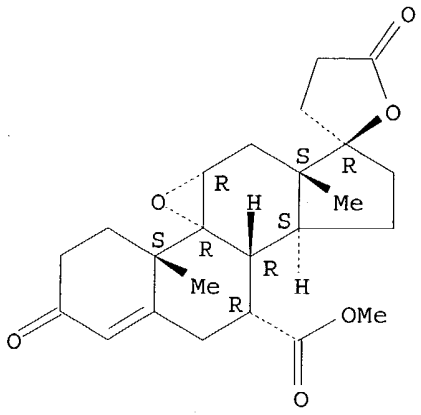
RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

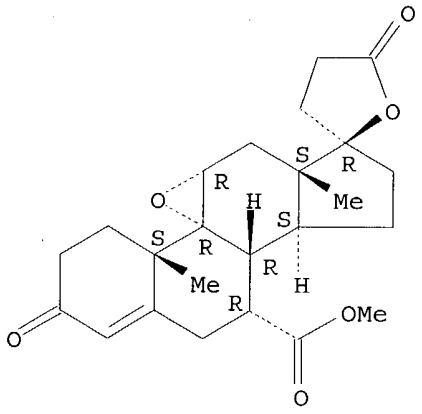


RN 573652-78-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with N-(4-hydroxyphenyl)acetamide (9CI) (CA INDEX NAME)

CM 1

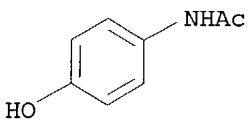
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 103-90-2
CMF C8 H9 N O2

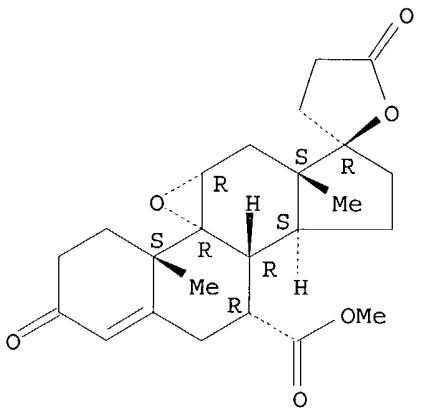


RN 573652-79-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 2-(4-chlorophenyl)-α-methyl-5-benzoxazoleacetic acid (9CI) (CA INDEX NAME)

CM 1

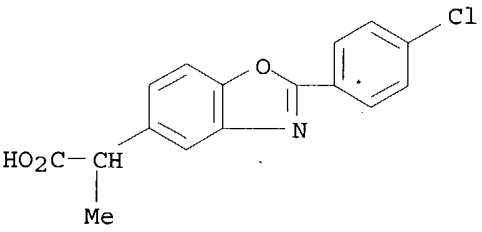
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 51234-28-7
CMF C16 H12 Cl N O3

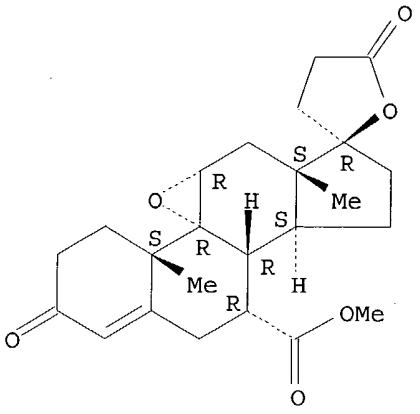


RN 573652-80-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 6-chloro-α-methyl-9H-carbazole-2-acetic acid (9CI) (CA INDEX NAME)

CM 1

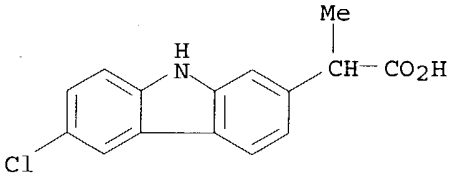
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 53716-49-7
CMF C15 H12 Cl N O2

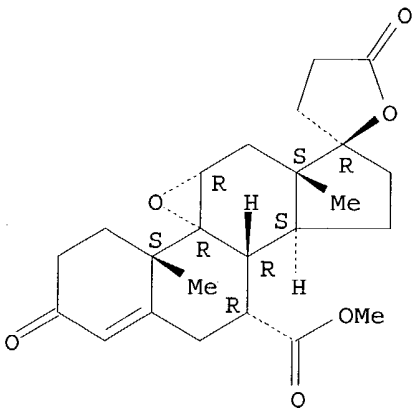


RN 573652-81-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 2-[(2,6-dichlorophenyl)amino]benzeneacetic acid (9CI) (CA INDEX NAME)

CM 1

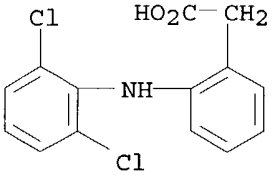
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 15307-86-5
CMF C14 H11 Cl2 N O2

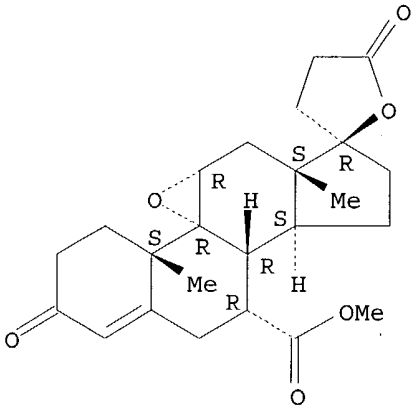


RN 573652-82-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 2',4'-difluoro-4-hydroxy[1,1'-biphenyl]-3-carboxylic acid (9CI) (CA INDEX NAME)

CM 1

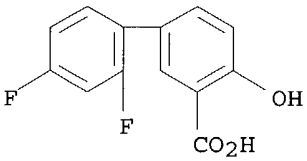
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 22494-42-4
CMF C13 H8 F2 O3

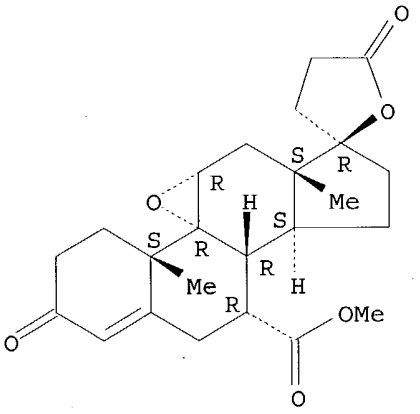


RN 573652-83-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 1,8-diethyl-1,3,4,9-tetrahydropyrano[3,4-b]indole-1-acetic acid (9CI) (CA INDEX NAME)

CM 1

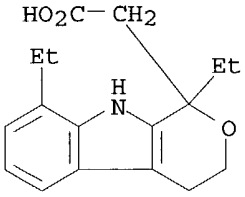
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 41340-25-4
CMF C17 H21 N O3

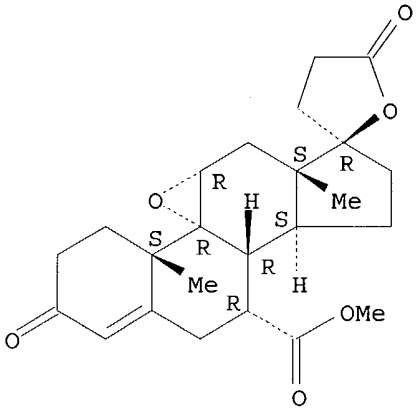


RN 573652-84-3 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with α-methyl-3-phenoxybenzeneacetic acid (9CI) (CA INDEX NAME)

CM 1

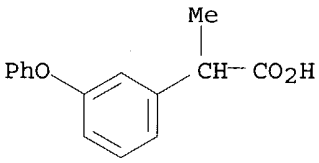
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 29679-58-1
CMF C15 H14 O3

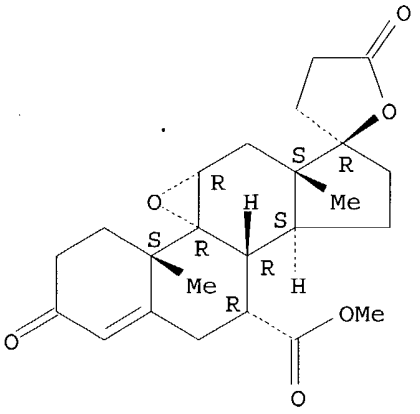


RN 573652-85-4 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 2-fluoro-α-methyl[1,1'-biphenyl]-4-acetic acid (9CI) (CA INDEX NAME)

CM 1

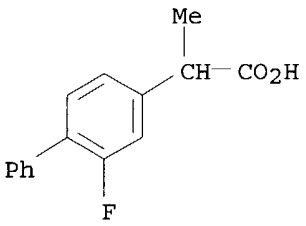
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 5104-49-4
CMF C15 H13 F O2

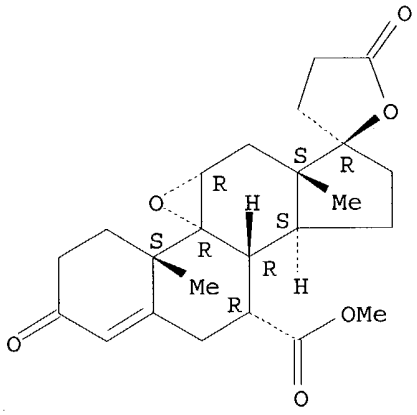


RN 573652-86-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with α-methyl-4-(2-methylpropyl)benzeneacetic acid (9CI) (CA INDEX NAME)

CM 1

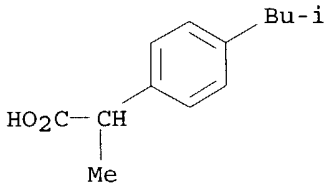
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 15687-27-1
CMF C13 H18 O2

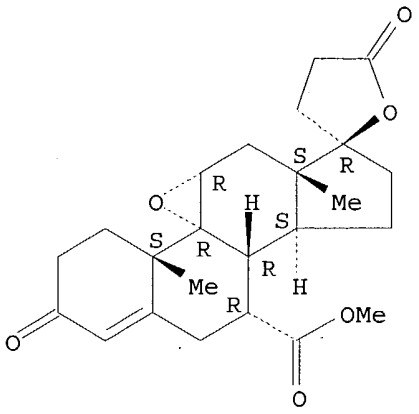


RN 573652-87-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1H-indole-3-acetic acid (9CI) (CA INDEX NAME)

CM 1

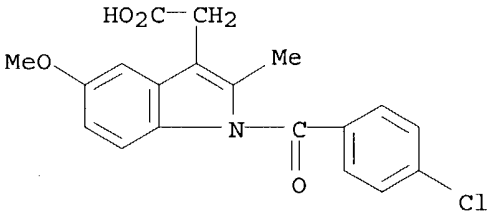
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 53-86-1
CMF C19 H16 Cl N O4

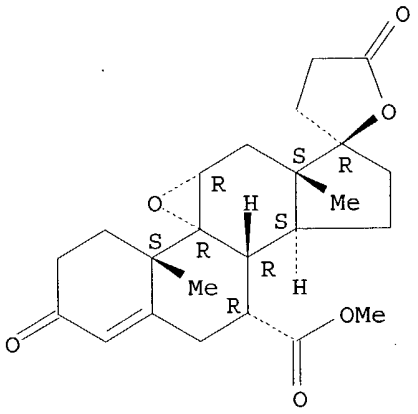


RN 573652-88-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 3-benzoyl-α-methylbenzeneacetic acid (9CI) (CA INDEX NAME)

CM 1

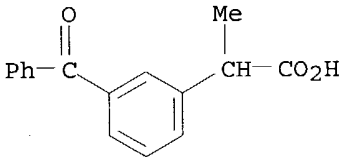
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 22071-15-4
CMF C16 H14 O3

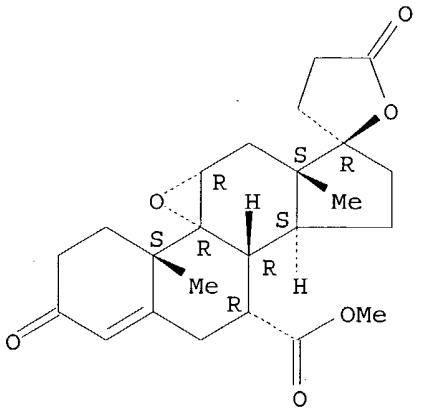


RN 573652-89-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 5-benzoyl-2,3-dihydro-1H-pyrrolizine-1-carboxylic acid (9CI) (CA INDEX NAME)

CM 1

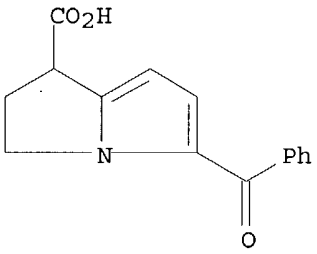
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 74103-06-3
CMF C15 H13 N O3

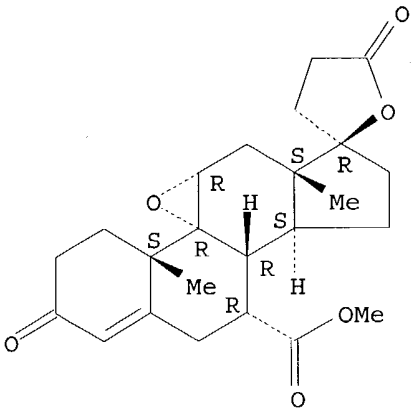


RN 573652-90-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 2-[(2,6-dichloro-3-methylphenyl)amino]benzoic acid (9CI) (CA INDEX NAME)

CM 1

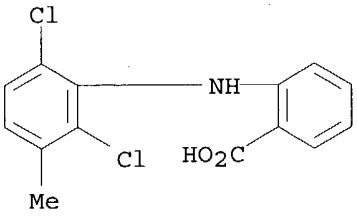
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 644-62-2
CMF C14 H11 Cl2 N O2

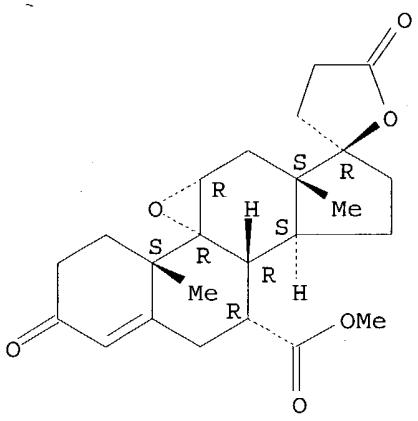


RN 573652-91-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 2-[(2,3-dimethylphenyl)amino]benzoic acid (9CI) (CA INDEX NAME)

CM 1

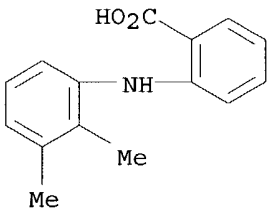
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 61-68-7
CMF C15 H15 N O2

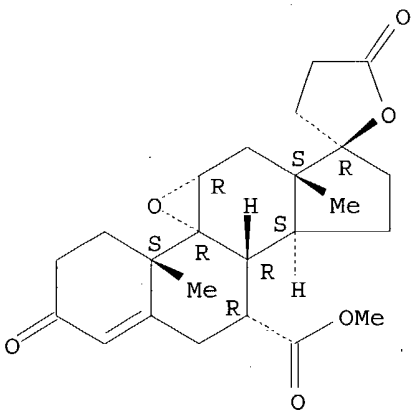


RN 573652-92-3 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 4-(6-methoxy-2-naphthalenyl)-2-butanone (9CI) (CA INDEX NAME)

CM 1

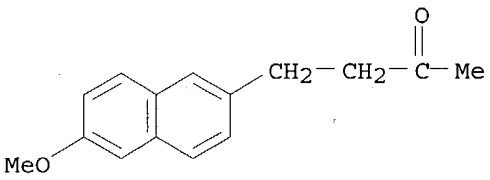
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 42924-53-8
CMF C15 H16 O2

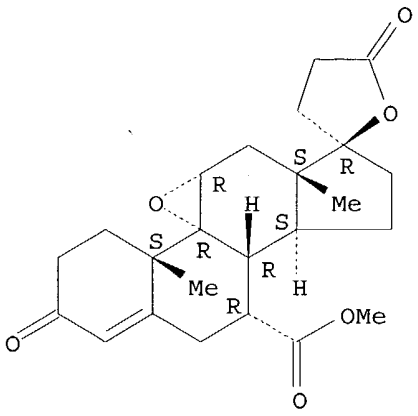


RN 573652-93-4 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with (αS)-6-methoxy-α-methyl-2-naphthaleneacetic acid (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

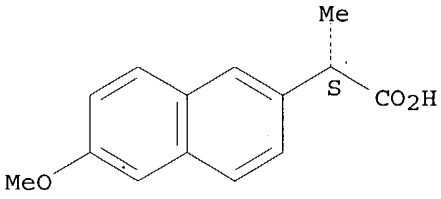
Absolute stereochemistry.



CM 2

CRN 22204-53-1
CMF C14 H14 O3

Absolute stereochemistry. Rotation (+).

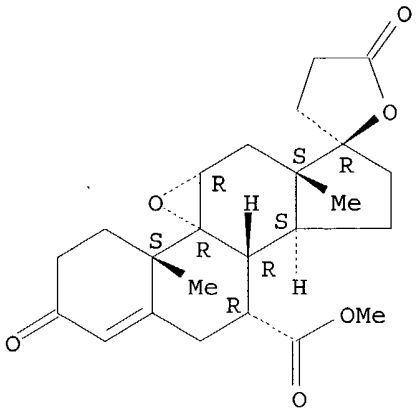


RN 573652-94-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 4,5-diphenyl-2-oxazolepropanoic acid (9CI) (CA INDEX NAME)

CM 1

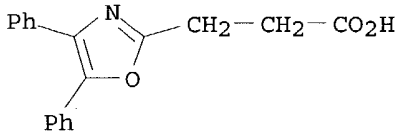
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 21256-18-8
CMF C18 H15 N O3

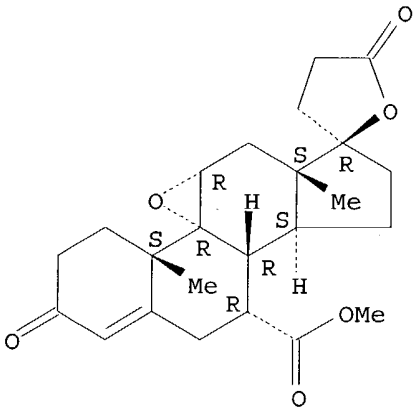


RN 573652-95-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 4-butyl-1-(4-hydroxyphenyl)-2-phenyl-3,5-pyrazolidinedione (9CI) (CA INDEX NAME)

CM 1

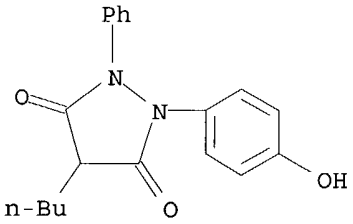
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 129-20-4
CMF C19 H20 N2 O3

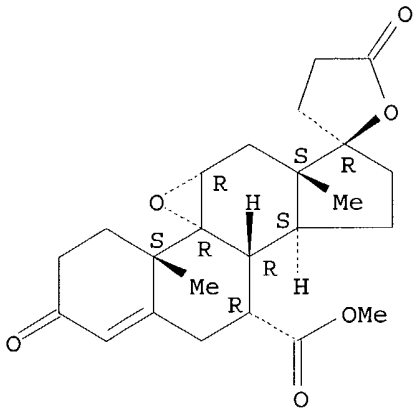


RN 573652-96-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 4-butyl-1,2-diphenyl-3,5-pyrazolidinedione (9CI) (CA INDEX NAME)

CM 1

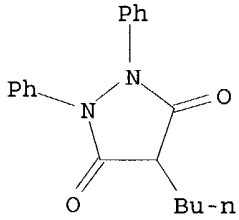
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 50-33-9
CMF C19 H20 N2 O2

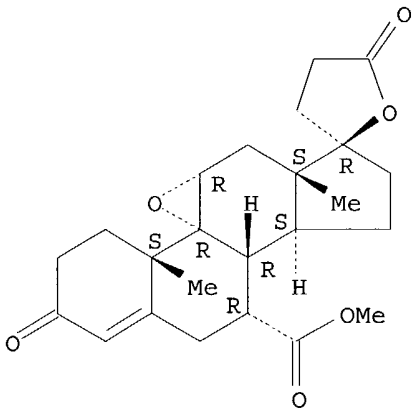


RN 573652-97-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 4-hydroxy-2-methyl-N-2-pyridinyl-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide (9CI) (CA INDEX NAME)

CM 1

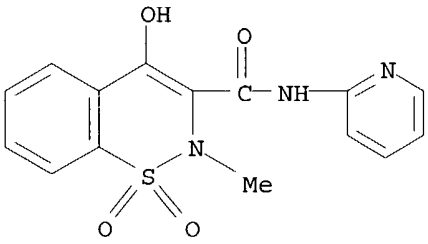
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 36322-90-4
CMF C15 H13 N3 O4 S

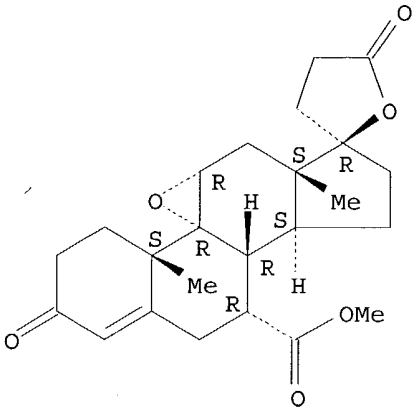


RN 573652-98-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with (1Z)-5-fluoro-2-methyl-1-[[4-(methylsulfinyl)phenyl]methylene]-1H-indene-3-acetic acid (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

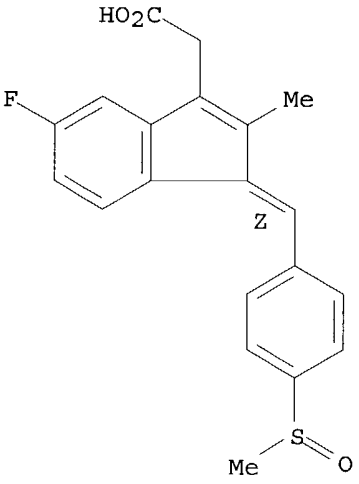
Absolute stereochemistry.



CM 2

CRN 38194-50-2
CMF C20 H17 F O3 S

Double bond geometry as shown.

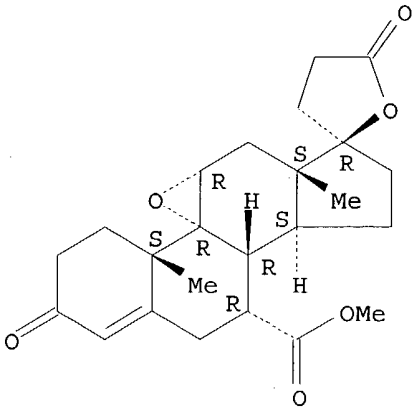


RN 573652-99-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with α-methyl-4-(2-thienylcarbonyl)benzeneacetic acid (9CI) (CA INDEX NAME)

CM 1

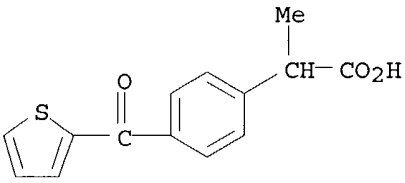
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 40828-46-4
CMF C14 H12 O3 S

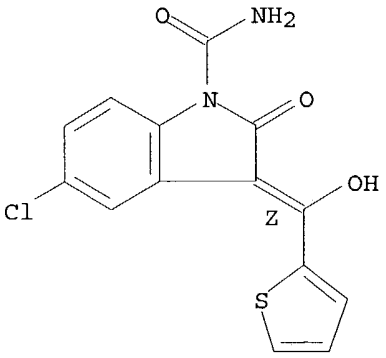


RN 573653-00-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with (3Z)-5-chloro-2,3-dihydro-3-(hydroxy-2-thienylmethylene)-2-oxo-1H-indole-1-carboxamide (9CI) (CA INDEX NAME)

CM 1

CRN 120210-48-2
CMF C14 H9 Cl N2 O3 S

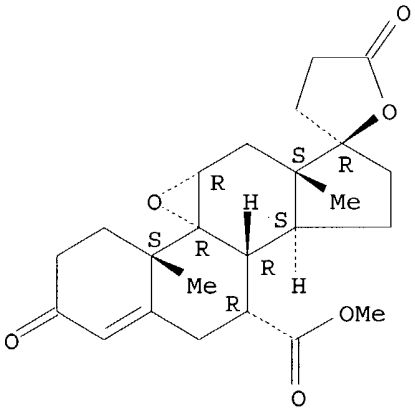
Double bond geometry as shown.



CM 2

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.

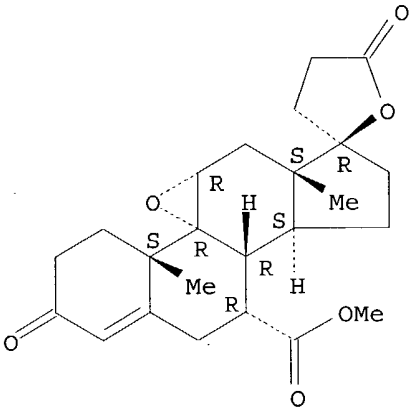


RN 573653-01-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 1-methyl-5-(4-methylbenzoyl)-1H-pyrrole-2-acetic acid (9CI) (CA INDEX NAME)

CM 1

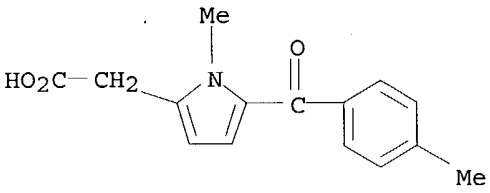
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 26171-23-3
CMF C15 H15 N O3

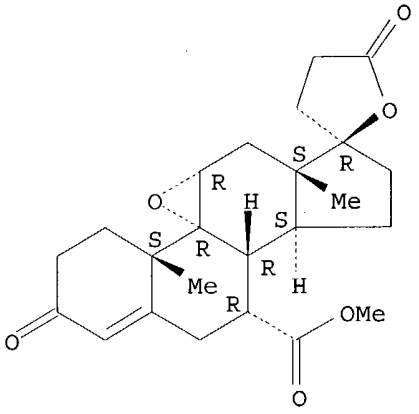


RN 573653-02-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 5-(4-chlorobenzoyl)-1,4-dimethyl-1H-pyrrole-2-acetic acid (9CI) (CA INDEX NAME)

CM 1

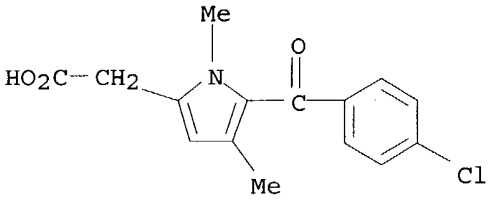
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 33369-31-2
CMF C15 H14 Cl N O3

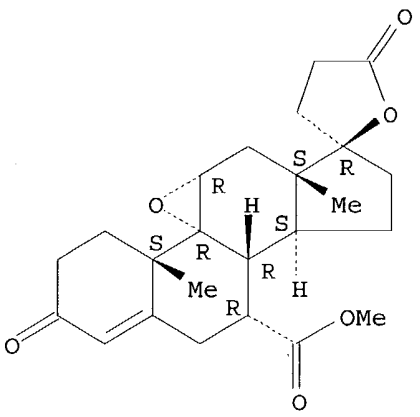


RN 573653-03-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, mixt. with 2-(acetyloxy)benzoic acid (9CI) (CA INDEX NAME)

CM 1

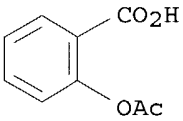
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 50-78-2
CMF C9 H8 O4



AB Combinations of aldosterone blockers (e.g. eplerenone) and NSAIDs (e.g. acetaminophen) useful in the treatment of cardiovascular disorders and inflammation-related disorders are disclosed.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 12 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:610248 CAPLUS
DOCUMENT NUMBER: 139:169328
TITLE: Aldosterone receptor antagonist and alpha-adrenergic modulating agent combination therapy for prevention or treatment of pathogenic conditions
INVENTOR(S): McMahon, Ellen G.; Rudolph, Amy E.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003063846	A2	20030807	WO 2003-US2723	20030130
WO 2003063846	A3	20031204		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,

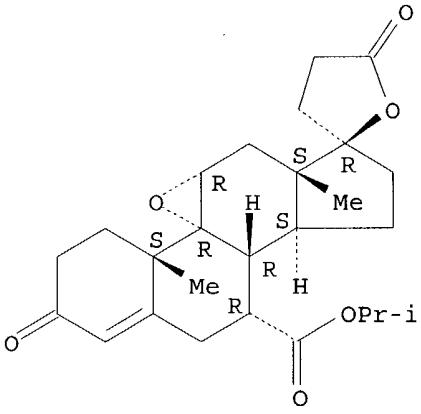
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003199483 A1 20031023 US 2003-354653 20030130
PRIORITY APPLN. INFO.: US 2002-353801P P 20020130

IT **95716-76-0 95716-78-2 95716-98-6**
95716-99-7 95717-02-5 107724-20-9, Eplerenone
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aldosterone receptor antagonist and α-adrenergic modulators combination therapy for prevention or treatment of pathogenic conditions)

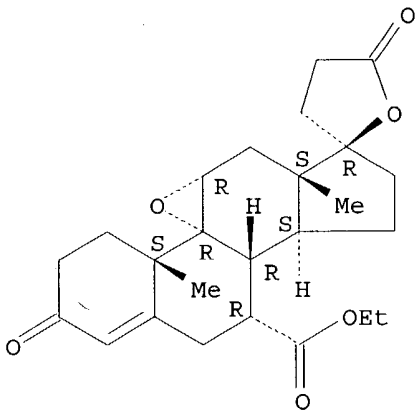
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



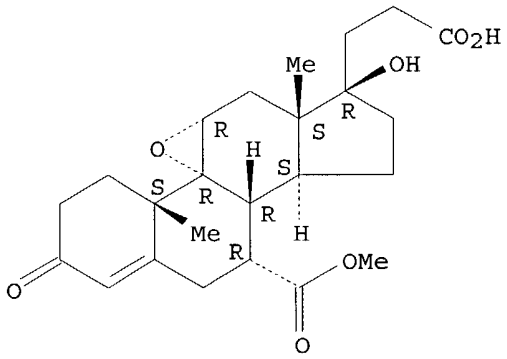
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

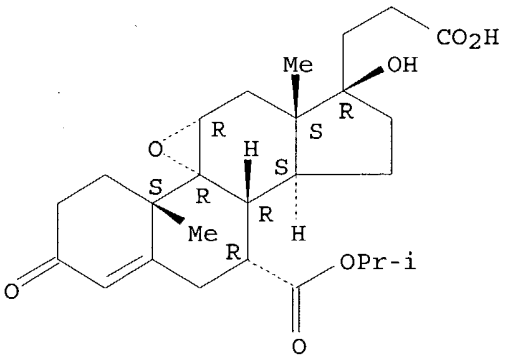
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

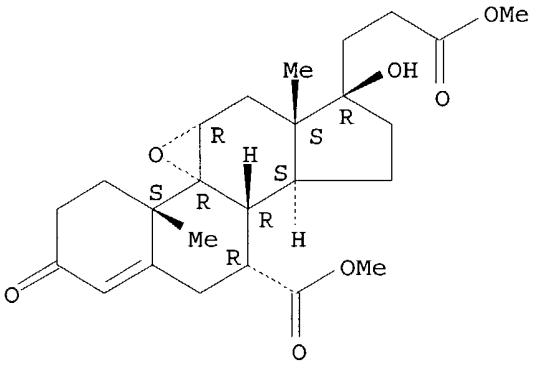
Absolute stereochemistry.



● K

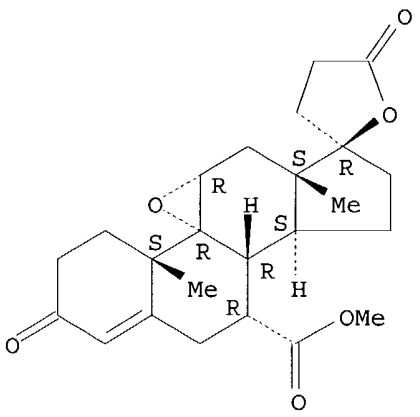
RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A combination therapy comprising a therapeutically-effective amount of an aldosterone receptor antagonist and a amount of an α-adrenergic modulating agent is described for treatment of circulatory disorders, including cardiovascular disorders such as hypertension, congestive heart failure, cirrhosis and ascites. Preferred α-adrenergic modulating agents are those compds. having high potency and bioavailability. Preferred aldosterone receptor antagonists are 20-spiroxane steroidal compds. characterized by the presence of a 9,11-substituted epoxy moiety. A preferred combination therapy includes an α1-adrenergic antagonist or an α2-adrenergic agonist and the aldosterone receptor antagonist epoxymexrenone. Thus, a solution contains 0.5% dapiprazole and eplerenone.

L8 ANSWER 13 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:1007852 CAPLUS
DOCUMENT NUMBER: 140:47560
TITLE: Pharmaceutical compositions and dosage forms for administration of hydrophobic drugs
INVENTOR(S): Chen, Feng-Jing; Patel, Mahesh V.; Fikstad, David T.; Zhang, Huiping; Gilyar, Chandrashekar
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 18 pp., Cont.-in-part of U.S. Pat. Appl. 2002 32,171.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 12
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003236236	A1	20031225	US 2003-444935	20030522
US 6267985	B1	20010731	US 1999-345615	19990630
US 6309663	B1	20011030	US 1999-375636	19990817
US 2001024658	A1	20010927	US 2000-751968	20001229
US 6458383	B2	20021001		
US 2002032171	A1	20020314	US 2001-877541	20010608
US 6761903	B2	20040713		

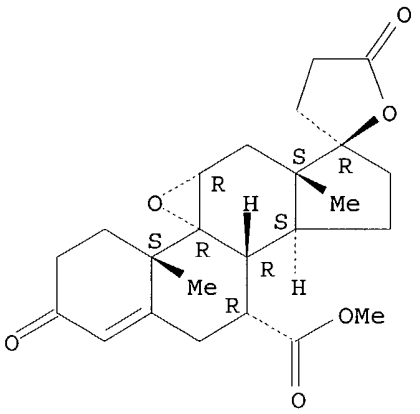
PRIORITY APPLN. INFO.:

US 1999-345615	A2 19990630
US 1999-375636	A2 19990817
US 2000-716029	A2 20001117
US 2000-751968	A2 20001229
US 2001-877541	A2 20010608

WO 2000-US18807 A 20000710

IT **107724-20-9**, Eplerenone
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical compns. containing hydrophobic drugs and solubilizers for enhancement of bioavailability)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Pharmaceutical compns. and dosage forms for administration of hydrophobic drugs, particularly **steroids**, are provided. The pharmaceutical compns. include a therapeutically effective amount of a hydrophobic drug, preferably a steroid; a solubilizer, preferably a vitamin E substance; and a surfactant. The synergistic effect between the hydrophobic drug and the vitamin E substance results in a pharmaceutical formulation with improved dispersion of both the active agent and the solubilizer. As a result of the improved dispersion, the pharmaceutical composition has improved bioavailability upon administration. Methods of improving the bioavailability of hydrophobic drugs are also provided. For example, a dispersion was formulated containing dl-α-tocopherol 313, Cremophor EL 256, dehydrated alc. 70, and progesterone 60 mg.

L8 ANSWER 14 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:678514 CAPLUS
DOCUMENT NUMBER: 139:191440
TITLE: Methods of treating or preventing a cardiovascular condition using a cyclooxygenase-1 inhibitor
INVENTOR(S): Krul, Elaine S.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 32 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2003162824	A1	20030828	US 2002-292255		20021112
PRIORITY APPLN. INFO.:			US 2001-331346P	P	20011112

US 2001-338291P P 20011113

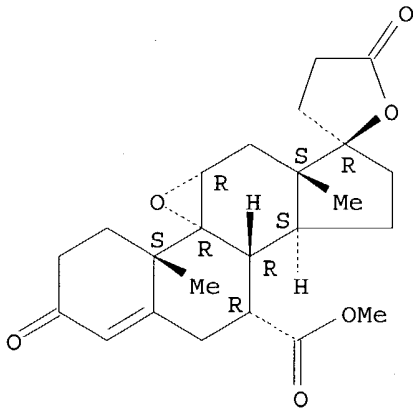
OTHER SOURCE(S): MARPAT 139:191440

IT **107724-20-9**, Eplerenone
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aldosterone receptor antagonist; cyclooxygenase-1 inhibitor for treating or preventing cardiovascular conditions)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Methods for treating or preventing one or more cardiovascular conditions in a subject comprises treating the subject with a therapeutically effective amount of a selective cyclooxygenase-1 inhibitor or a pharmaceutically-acceptable salt, tautomer or prodrug thereof alone or in combination with either a drug used in the treatment or prevention of a cardiovascular condition or a non-drug therapy used in the treatment of a cardiovascular condition. Cyclooxygenase-1 inhibitor, 5-(4-Chlorophenyl)-1-(4-methoxyphenyl)-3-(trifluoromethyl)pyrazole (I), was prepared from 4'-chloroacetophenone and (4-methoxyphenyl)hydrazine hydrochloride. I inhibited development of atherosclerosis in cholesterol-fed apoE knockout mice.

L8 ANSWER 15 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:396452 CAPLUS

DOCUMENT NUMBER: 138:363210

TITLE: Methods for the treatment or prophylaxis of aldosterone-mediated pathogenic effects in a subject using an epoxy-steroidal aldosterone antagonist

INVENTOR(S): Williams, Gordon H.; Funder, John W.; Garthwaite, Susan M.; Roniker, Barbara; Fedde, Kenton N.; Rocha, Ricardo

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 242 pp., Cont.-in-part of U.S. Ser. No. 713,348.
CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

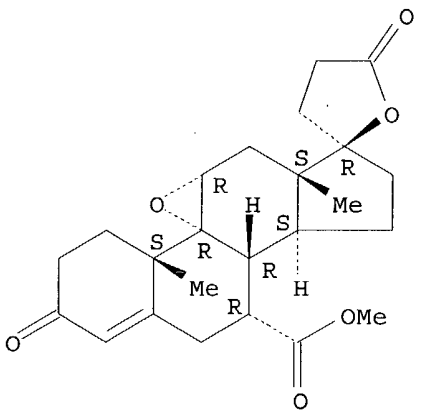
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2003096798	A1	20030522	US 2001-17288		20011213
US 2003125312	A1	20030703	US 2001-915784		20010726
US 6716829	B2	20040406			
US 2003191100	A1	20031009	US 2002-243876		20020913
US 2003203884	A1	20031030	US 2003-354823		20030130
US 2004067916	A1	20040408	US 2003-648863		20030826
US 2004102424	A1	20040527	US 2003-682527		20031009
PRIORITY APPLN. INFO.:			US 1999-164390P	P	19991109
			US 2000-211064P	P	20000613
			US 2000-211250P	P	20000613
			US 2000-211253P	P	20000613
			US 2000-211264P	P	20000613
			US 2000-211311P	P	20000613
			US 2000-211340P	P	20000613
			US 2000-211451P	P	20000613
			US 2000-211459P	P	20000613
			US 2000-221358P	P	20000727
			US 2000-221364P	P	20000727
			US 2000-233056P	P	20000914
			US 2000-709253	A2	20001108
			US 2000-713348	A2	20001114
			US 2000-712543	A1	20001114
			US 2001-261352P	P	20010112
			US 2001-261497P	P	20010112
			US 2001-17288	B1	20011213

IT **107724-20-9DP**, Eplerenone, derivs.
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(antihypertensive, renal, and metabolic effects of eplerenone and enalapril in patients with type 2 diabetes, albuminuria, and hypertension)

RN 107724-20-9 CAPLUS

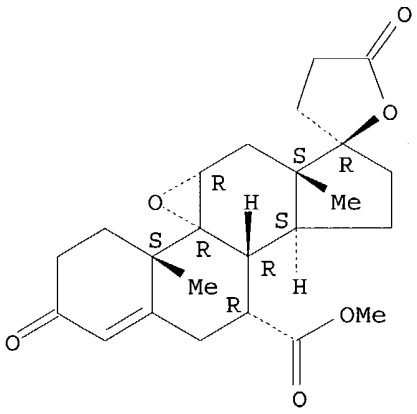
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



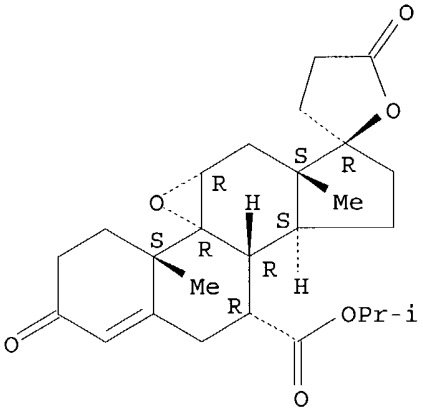
IT **107724-20-9P**, Eplerenone
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(use of epoxy-steroidal aldosterone antagonist for treatment or prophylaxis of aldosterone-mediated pathogenic effects)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



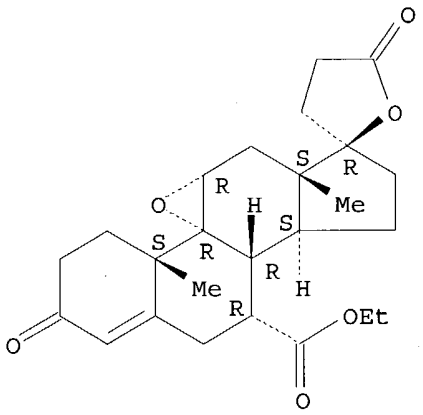
IT **95716-76-0P 95716-78-2P 95716-98-6P 95716-99-7P 95717-02-5P**
RL: PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(use of epoxy-steroidal aldosterone antagonist for treatment or prophylaxis of aldosterone-mediated pathogenic effects)
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



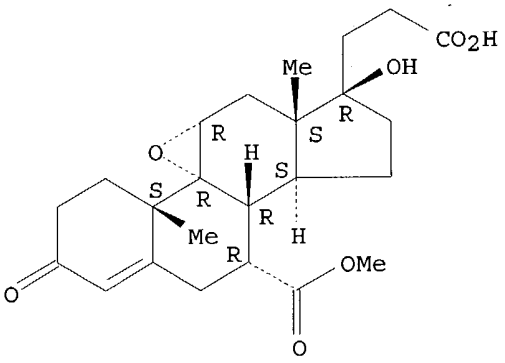
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

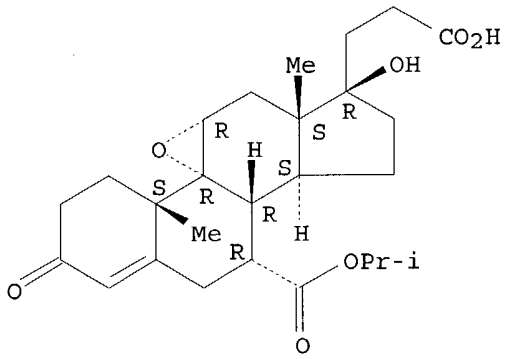
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

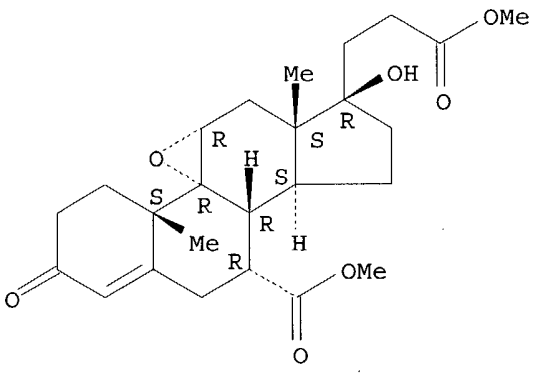
Absolute stereochemistry.



● K

RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The present invention provides methods for the treatment or prophylaxis of one or more aldosterone-mediated pathogenic effects in a subject suffering from or susceptible to the pathogenic effect or effects wherein the subject has one or more conditions selected from the group consisting of a sub-normal endogenous aldosterone level, salt sensitivity and an elevated dietary sodium intake. The methods comprise administering to the subject a therapeutically-effective amount of one or more epoxy-steroidal compds. that are aldosterone antagonists.

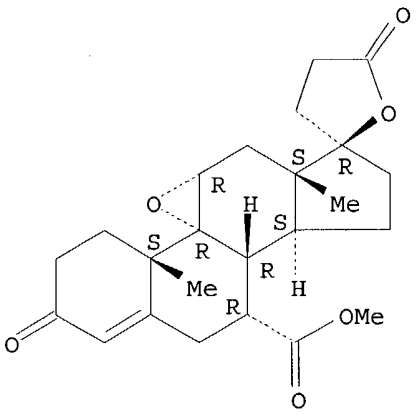
L8 ANSWER 16 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:930970 CAPLUS
DOCUMENT NUMBER: 140:743
TITLE: Epoxy-steroidal aldosterone antagonist and calcium channel blocker combination therapy for treatment of cardiovascular disorders
INVENTOR(S): Schuh, Joseph R.
PATENT ASSIGNEE(S): G.D. Searle and Co., USA
SOURCE: U.S. Pat. Appl. Publ., 87 pp., Cont.-in-part of U.S. Ser. No. 126134, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2003220312	A1	20031127	US 2002-324330		20021219
US 2002132001	A1	20020919	US 2001-854264		20010511
US 2002042405	A1	20020411	US 2001-917425		20010727
US 2003055027	A1	20030320	US 2002-126134		20020419
PRIORITY APPLN. INFO.:			US 2000-203637P	P	20000511
			US 2000-221359P	P	20000727
			US 2001-854264	A1	20010511
			US 2001-917425	B1	20010727
			US 2002-126134	B2	20020419

IT **107724-20-9P**, Eplerenone
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(epoxy-steroidal aldosterone antagonist; epoxy-steroidal aldosterone antagonist and calcium channel blocker combination therapy for treatment of cardiovascular disorders)

RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

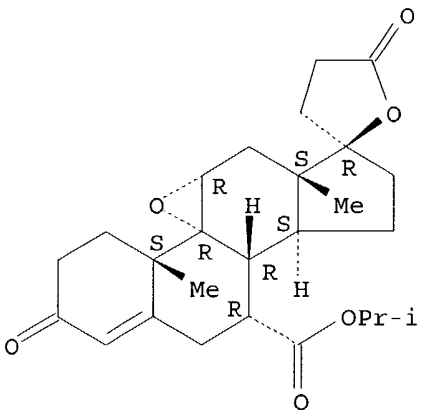
Absolute stereochemistry.



IT **95716-76-0**, Pregn-4-ene-7,21-dicarboxylic acid, **9**, **11-epoxy**-17-hydroxy-3-oxo-,γ-lactone, 1-methylethyl ester, (7α,11α,17α)- **95716-78-2**, Pregn-4-ene-7,21-dicarboxylic acid, **9,11-epoxy**-17-hydroxy-3-oxo-,γ-lactone, ethyl ester, (7α,11α,17α)- **95716-98-6**, Pregn-4-ene-7,21-dicarboxylic acid,**9,11,-epoxy**-17-hydroxy-3-oxo-,7-methyl ester monopotassium salt, (7α,11α,17α)- **95716-99-7**, Pregn-4-ene-7,21-dicarboxylic acid, **9,11-epoxy**-17-hydroxy-3-oxo-,7-(1-methylethyl) ester monopotassium salt,(7α,11α,17α)- **95717-02-5**, Pregn-4-ene-7,21-dicarboxylic acid **9,11-epoxy**-17-hydroxy-3-oxodimethyl ester, (7α,11α,17α)-
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(epoxy-steroidal aldosterone antagonist; epoxy-steroidal aldosterone antagonist and calcium channel blocker combination therapy for treatment of cardiovascular disorders)

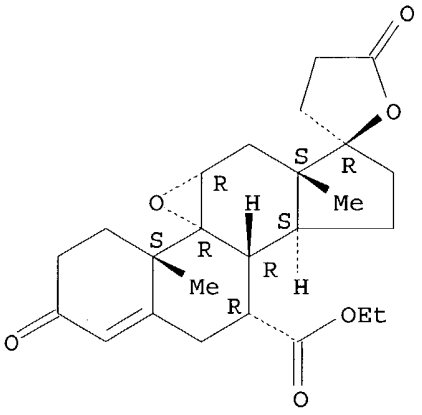
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



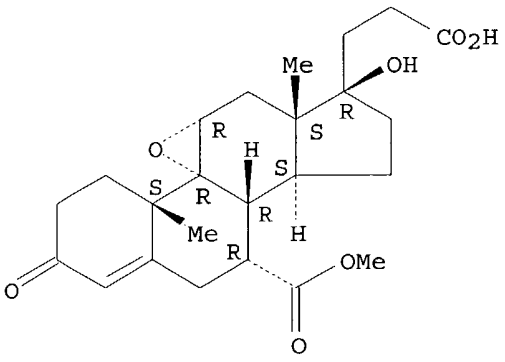
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

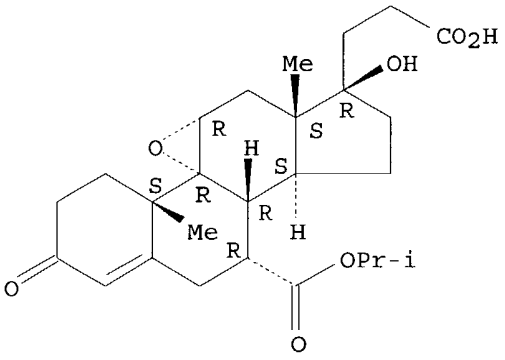
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

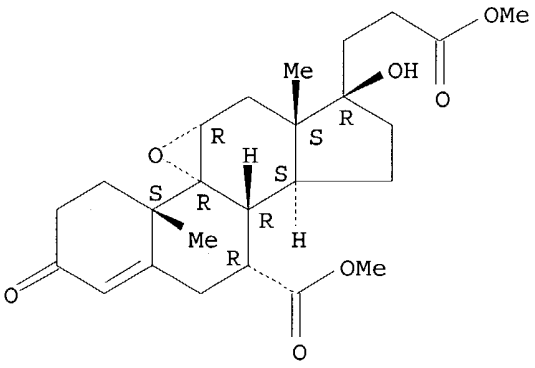
Absolute stereochemistry.



● K

RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A combination therapy comprising a therapeutically-effective amount of an epoxy-steroidal aldosterone receptor antagonist and a therapeutically-effective amount of a calcium channel blocker is described for treatment of circulatory disorders, including cardiovascular disorders such as hypertension, angina and congestive heart failure. Preferred calcium channel blockers are those compds. having high potency and bioavailability. Preferred epoxy-steroidal aldosterone receptor antagonists are 20-spiroxane steroidal compds. characterized by the presence of a 9α,11α-substituted epoxy moiety. A preferred combination therapy includes the calcium channel blocker amlodipine and the aldosterone receptor antagonist eplerenone.

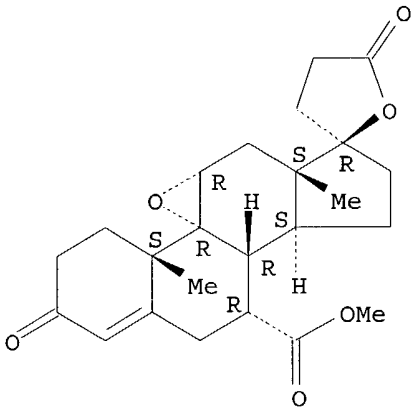
L8 ANSWER 17 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:449846 CAPLUS
DOCUMENT NUMBER: 137:29820
TITLE: Cloning, characterization and use of steroid 11α-hydroxylase and cytochrome P 450 oxidoreductase from Aspergillus ochraceus
INVENTOR(S): Bolton, Suzanne; Clayton, Robert; Easton, Alan; Engel, Leslie; Messing, Dean
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 181 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002046386	A2	20020613	WO 2001-US51070	20011026
WO 2002046386	A3	20030807		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002041768	A5	20020618	AU 2002-41768	20011026
EP 1352054	A2	20031015	EP 2001-988464	20011026
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
US 2003148420 A1 20030807 US 2001-21425 20011030
PRIORITY APPLN. INFO.: US 2000-244300P P 20001030
WO 2001-US51070 W 20011026

IT **107724-20-9P**, Eplerenone
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(cloning, characterization and use of steroid 11α-hydroxylase and cytochrome P 450 oxidoreductase from Aspergillus ochraceus)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The present invention relates to a novel cytochrome P 450-like enzyme (Aspergillus ochraceus 11α-hydroxylase) and an oxidoreductase (Aspergillus ochraceus oxidoreductase) isolated from cDNA library generated from the mRNA of Aspergillus ochraceus spores. When the cDNA encoding the 11α-hydroxylase was co-expressed in Spodoptera frugiperda (Sf-9) insect cells with the cDNA encoding human oxidoreductase as an electron donor, it successfully catalyzed the conversion of the steroid substrate 4-androstene-3,17-dione (AD) to 11-α-hydroxy-AD as determined by HPLC anal. The invention also relates to nucleic acid mols. associated with or derived from these cDNAs including complements, homologues and fragments thereof, and methods of using these nucleic acid mols., to generate, for example, polypeptides and fragments thereof. The invention also relates to the generation of antibodies that recognizes the A. ochraceus 11-α-hydroxylase and oxidoreductase and methods of using these antibodies to detect the presence of these native and recombinant polypeptides within unmodified and transformed host cells, resp. The invention also provides methods of expressing the Aspergillus 11-α-hydroxylase gene sep., or in combination with human or Aspergillus oxidoreductase, in heterologous host cells, to facilitate the bioconversion of steroid substances to their 11-α-hydroxy-counterparts.

L8 ANSWER 18 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:171665 CAPLUS
DOCUMENT NUMBER: 136:210586
TITLE: Use of an aldosterone receptor antagonist to improve cognitive function

INVENTOR(S): Fedde, Kenton N.; Perez, Alfonzo T.; Tooley, Joseph F.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 177 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002017895	A2	20020307	WO 2001-US26760	20010828
WO 2002017895	A3	20030206		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001085318	A5	20020313	AU 2001-85318	20010828
US 2002111337	A1	20020815	US 2001-941206	20010828
EP 1313485	A2	20030528	EP 2001-964471	20010828
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004507495	T2	20040311	JP 2002-522869	20010828

PRIORITY APPLN. INFO.: US 2000-228738P P 20000828
WO 2001-US26760 W 20010828

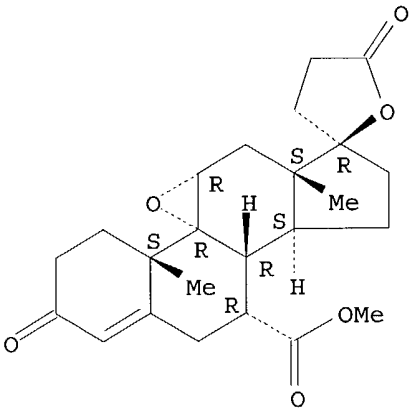
IT **344450-03-9 344450-04-0 344450-09-5**
344450-11-9 396068-72-7 396068-73-8
396068-74-9 396068-76-1 396068-77-2
396068-78-3 396068-79-4 396068-80-7
396068-81-8 396068-82-9 396068-83-0
396068-84-1 396068-85-2 396077-49-9
402718-58-5 402718-59-6 402718-60-9
RL: PRP (Properties)
(eplerenone crystalline solvate; use of aldosterone receptor antagonist to improve cognitive function and treat diseases and improve quality of life)

RN 344450-03-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1,1-dimethylethyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 540-88-5
CMF C6 H12 O2

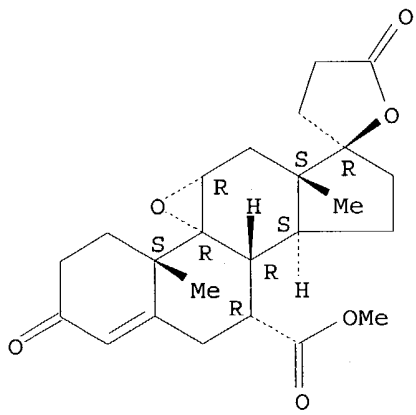
t-Bu—O—Ac

RN 344450-04-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with trichloromethane (9CI) (CA INDEX NAME)

CM 1

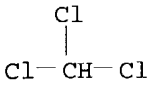
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-66-3
CMF C H Cl3

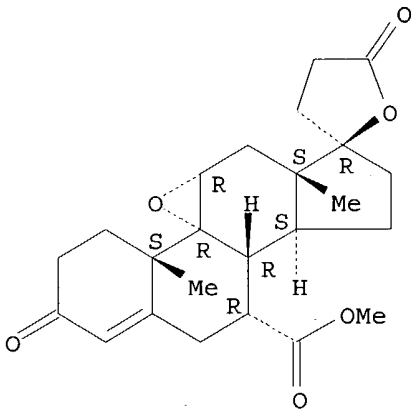


RN 344450-09-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-octanol (9CI) (CA INDEX NAME)

CM 1

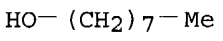
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 111-87-5
CMF C8 H18 O

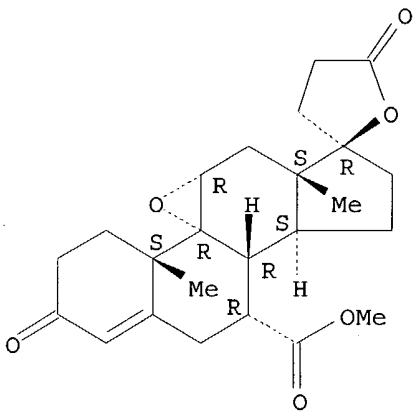


RN 344450-11-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

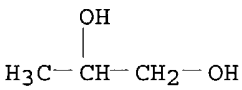
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 57-55-6
CMF C3 H8 O2

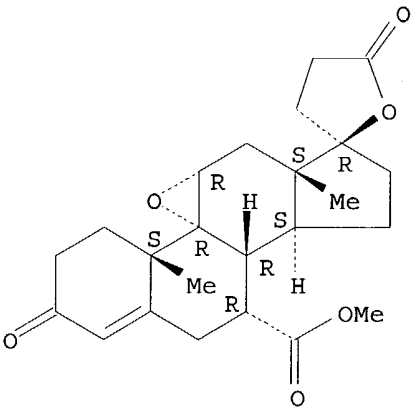


RN 396068-72-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-butanone (1:1) (9CI) (CA INDEX NAME)

CM 1

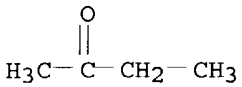
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 78-93-3
CMF C4 H8 O

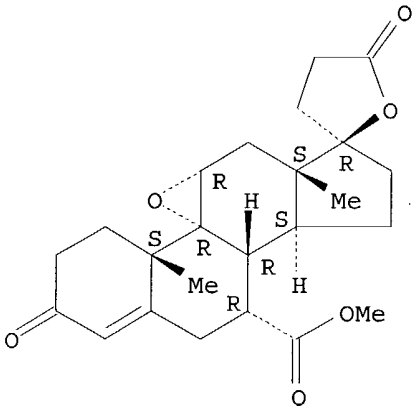


RN 396068-73-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-propanone (1:1) (9CI) (CA INDEX NAME)

CM 1

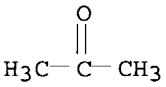
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-64-1
CMF C3 H6 O

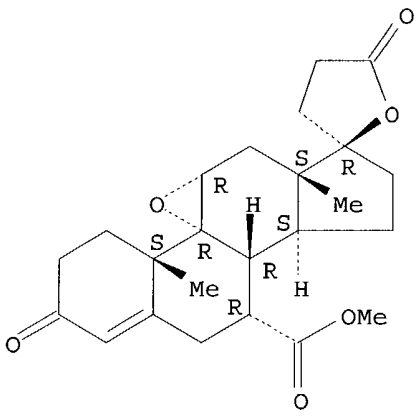


RN 396068-74-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with methylbenzene (1:1) (9CI) (CA INDEX NAME)

CM 1

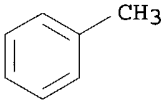
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 108-88-3
CMF C7 H8

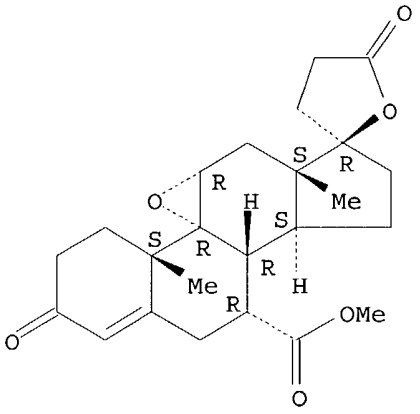


RN 396068-76-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-methylpropyl acetate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 110-19-0
CMF C6 H12 O2

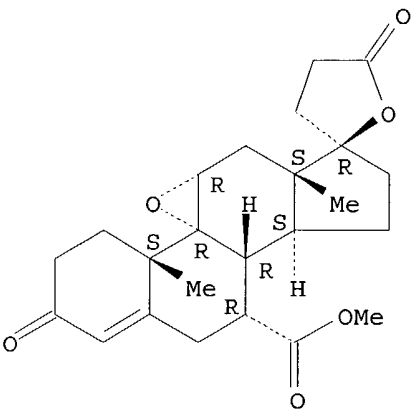
i-Bu—O—Ac

RN 396068-77-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-propanol (1:1) (9CI) (CA INDEX NAME)

CM 1

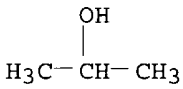
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-63-0
CMF C3 H8 O

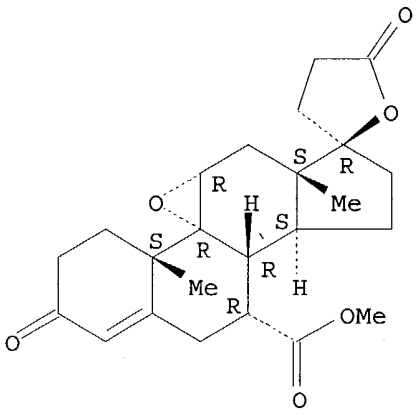


RN 396068-78-3 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with ethanol (1:1) (9CI) (CA INDEX NAME)

CM 1

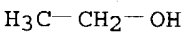
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 64-17-5
CMF C2 H6 O

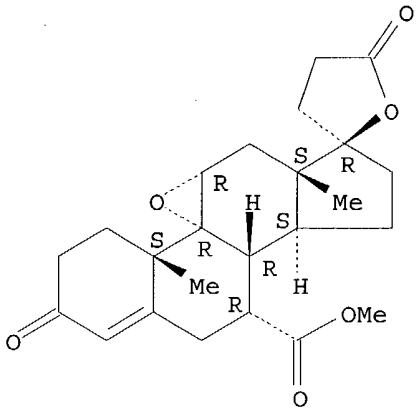


RN 396068-79-4 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with acetic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

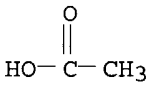
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

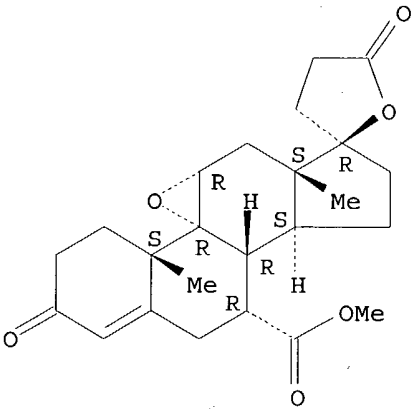


RN 396068-80-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with methyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

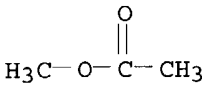
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 79-20-9
CMF C3 H6 O2

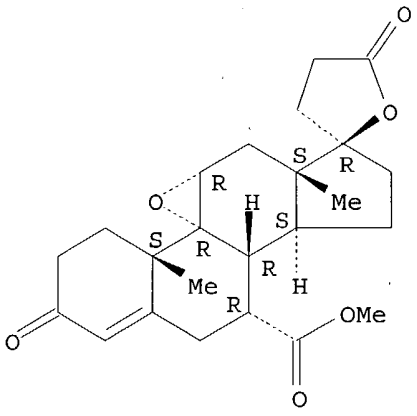


RN 396068-81-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with ethyl propanoate (1:1) (9CI) (CA INDEX NAME)

CM 1

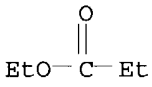
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 105-37-3
CMF C5 H10 O2

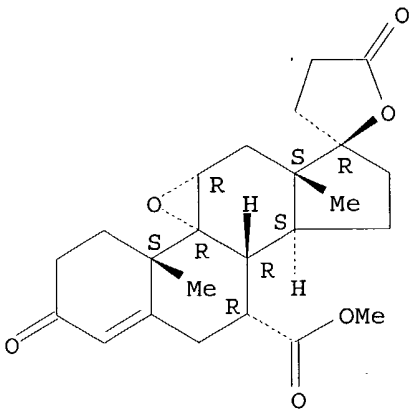


RN 396068-82-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-butanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 71-36-3
CMF C4 H10 O

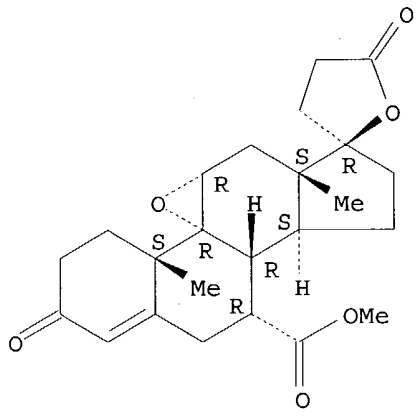
$H_3C-CH_2-CH_2-CH_2-OH$

RN 396068-83-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-propanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 71-23-8
CMF C3 H8 O

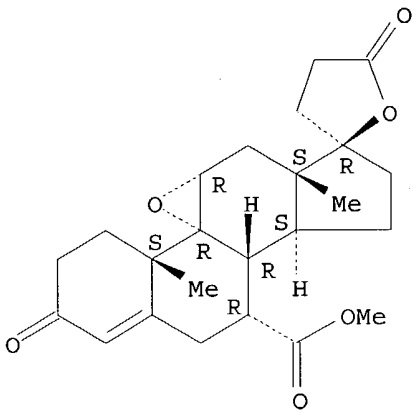
$H_3C-CH_2-CH_2-OH$

RN 396068-84-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with propyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 109-60-4
CMF C5 H10 O2

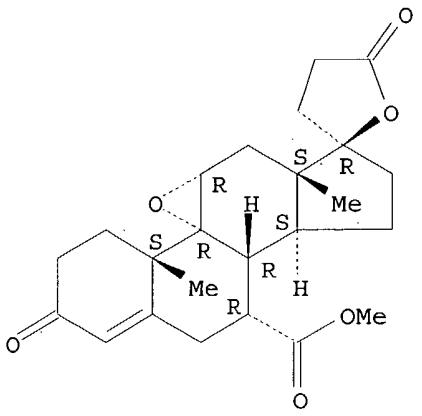
n-Pr-O-Ac

RN 396068-85-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with tetrahydrofuran (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

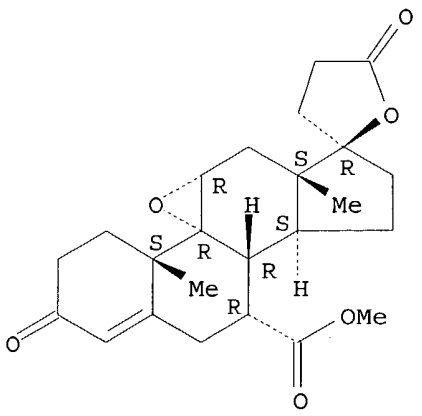
CRN 109-99-9
CMF C4 H8 O

RN 396077-49-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with butyl acetate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 123-86-4
CMF C6 H12 O2

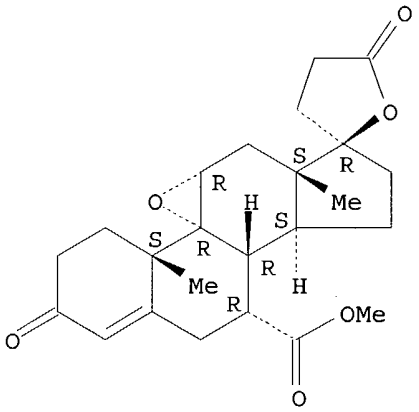
n-Bu—O—Ac

RN 402718-58-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-pentanone (9CI) (CA INDEX NAME)

CM 1

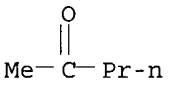
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 107-87-9
CMF C5 H10 O

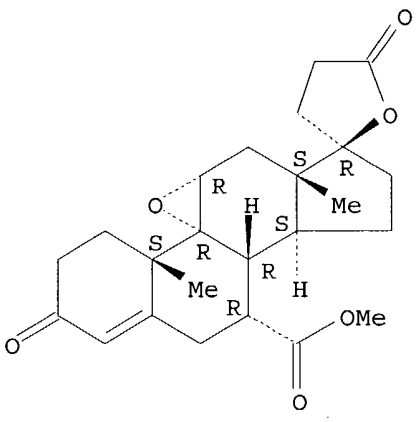


RN 402718-59-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

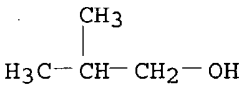
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 78-83-1
CMF C4 H10 O

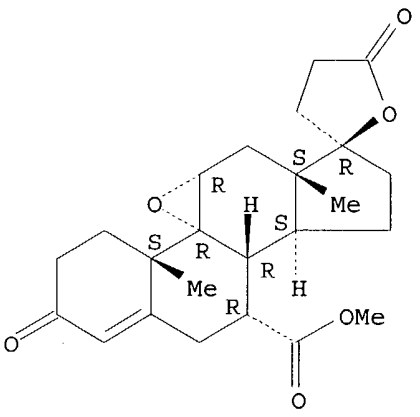


RN 402718-60-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-methyl-2-propanol (9CI) (CA INDEX NAME)

CM 1

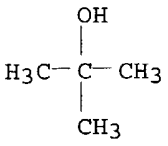
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



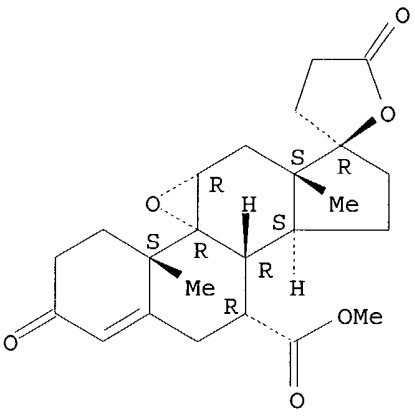
CM 2

CRN 75-65-0
CMF C4 H10 O



IT **107724-20-9**, Eplerenone
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(use of aldosterone receptor antagonist to improve cognitive function and treat diseases and improve quality of life)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Aldosterone receptor antagonists for the prevention and treatment of cognitive dysfunction are disclosed. The compds. of interest are epoxy- and non-epoxy **steroids.** The compds. can also be used to treat heart, kidney, stroke and vascular disease.

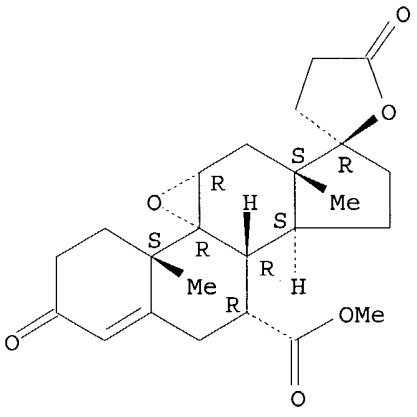
L8 ANSWER 19 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:107160 CAPLUS
DOCUMENT NUMBER: 136:161366
TITLE: Epoxy-steroidal aldosterone antagonist and calcium channel blocker combination therapy for treatment of congestive heart failure and other cardiovascular disorders
INVENTOR(S): Schuh, Joseph R.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 231 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002009761	A2	20020207	WO 2001-US23677	20010727
WO 2002009761	A3	20030103		
WO 2002009761	C2	20030710		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1303305	A2	20030423	EP 2001-956001	20010727
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004505061	T2	20040219	JP 2002-515313	20010727
US 2003220310	A1	20031127	US 2003-343165	20030127
PRIORITY APPLN. INFO.:			US 2000-221359P P	20000727
			WO 2001-US23677 W	20010727

IT **107724-20-9**, Eplerenone
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(epoxy-steroidal aldosterone antagonist and calcium channel blocker combination therapy for treatment of congestive heart failure and other cardiovascular disorders)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



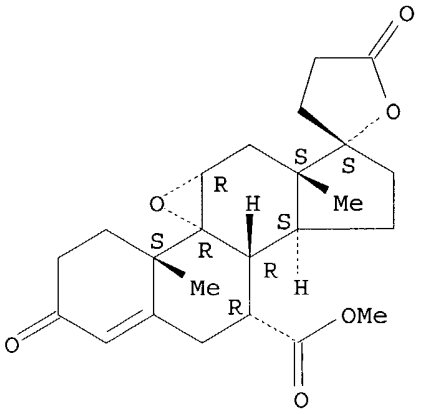
IT **395665-48-2 395665-50-6 395665-56-2**
395665-66-4 395665-68-6 396068-70-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(epoxy-steroidal aldosterone antagonist and calcium channel blocker combination therapy for treatment of congestive heart failure and other

cardiovascular disorders)

RN 395665-48-2 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α)- (9CI) (CA INDEX NAME)

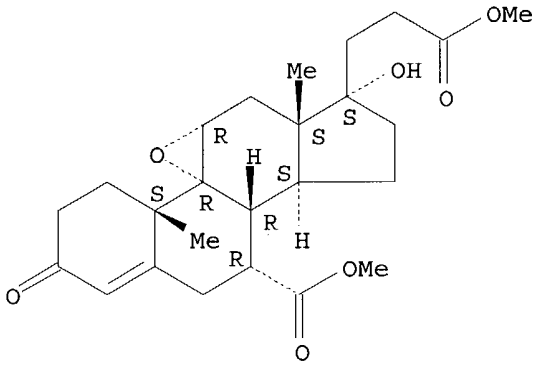
Absolute stereochemistry.



RN 395665-50-6 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α)- (9CI) (CA INDEX NAME)

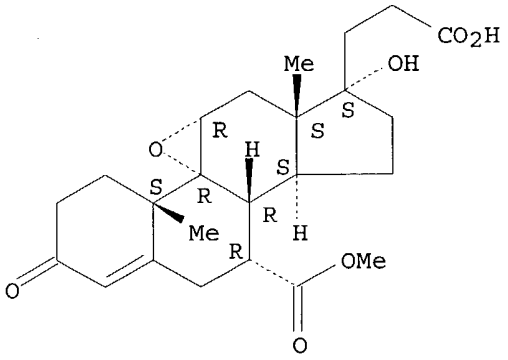
Absolute stereochemistry.



RN 395665-56-2 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α)- (9CI) (CA INDEX NAME)

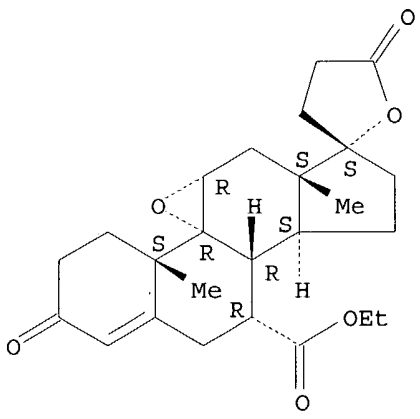
Absolute stereochemistry.



● K

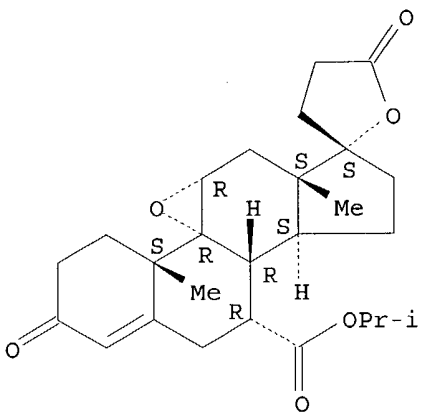
RN 395665-66-4 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



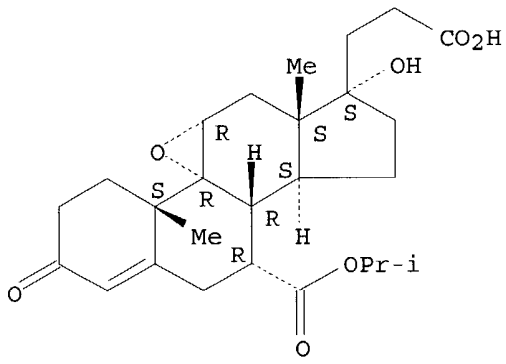
RN 395665-68-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 396068-70-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● K

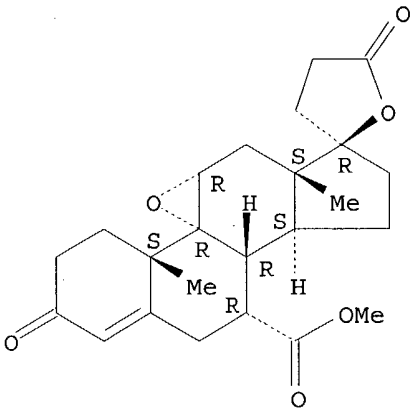
IT **344450-03-9 344450-04-0 344450-09-5**
344450-11-9 396068-72-7 396068-73-8
396068-74-9 396068-75-0 396068-76-1
396068-77-2 396068-78-3 396068-79-4
396068-80-7 396068-81-8 396068-82-9
396068-83-0 396068-84-1 396068-85-2
RL: PRP (Properties)
(epoxy-steroidal aldosterone antagonist and calcium channel blocker combination therapy for treatment of congestive heart failure and other cardiovascular disorders)

RN 344450-03-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1,1-dimethylethyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 540-88-5
CMF C6 H12 O2

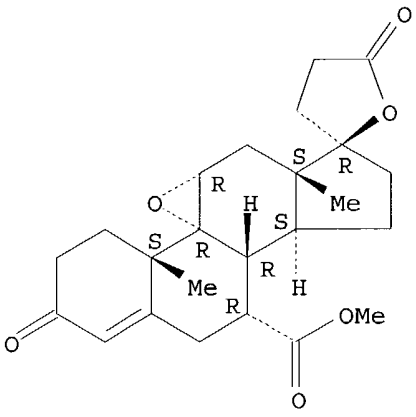
t-Bu—O—Ac

RN 344450-04-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with trichloromethane (9CI) (CA INDEX NAME)

CM 1

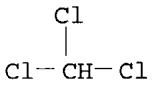
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-66-3
CMF C H Cl3

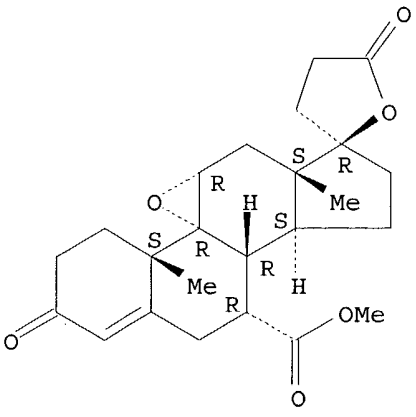


RN 344450-09-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-octanol (9CI) (CA INDEX NAME)

CM 1

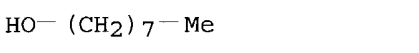
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 111-87-5
CMF C8 H18 O

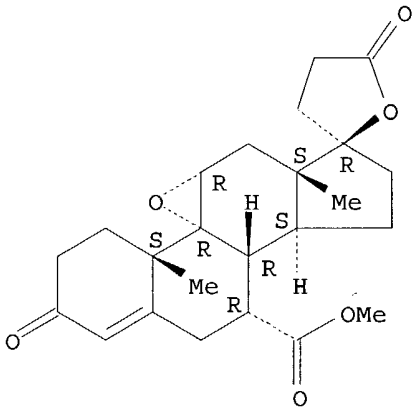


RN 344450-11-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

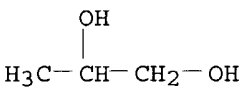
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 57-55-6
CMF C3 H8 O2

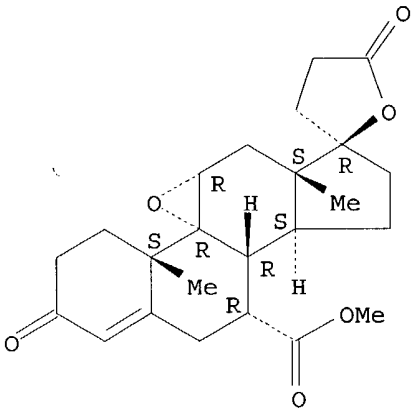


RN 396068-72-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-butanone (1:1) (9CI) (CA INDEX NAME)

CM 1

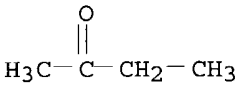
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 78-93-3
CMF C4 H8 O

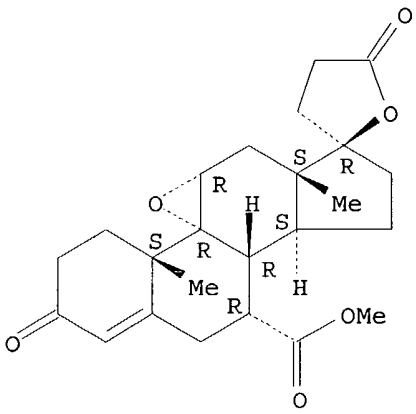


RN 396068-73-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-propanone (1:1) (9CI) (CA INDEX NAME)

CM 1

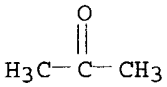
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-64-1
CMF C3 H6 O

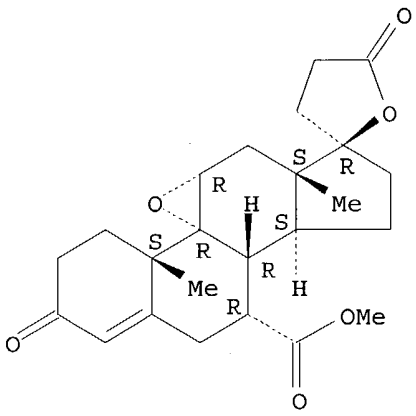


RN 396068-74-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with methylbenzene (1:1) (9CI) (CA INDEX NAME)

CM 1

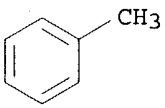
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 108-88-3
CMF C7 H8

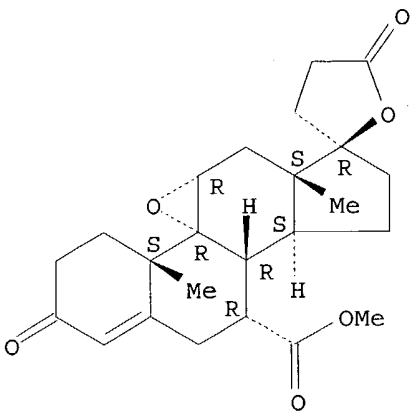


RN 396068-75-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with butyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 123-86-4
CMF C6 H12 O2

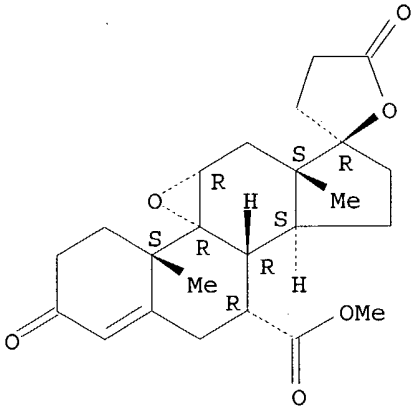
n-Bu—O—Ac

RN 396068-76-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-methylpropyl acetate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 110-19-0
CMF C6 H12 O2

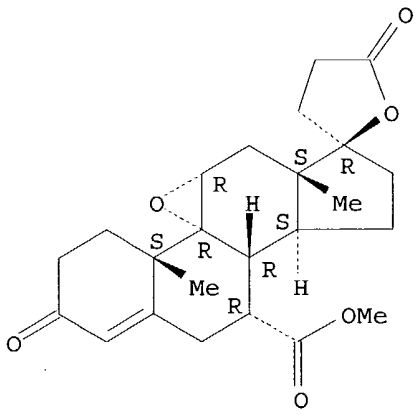
i-Bu—O—Ac

RN 396068-77-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-propanol (1:1) (9CI) (CA INDEX NAME)

CM 1

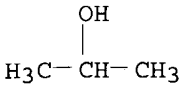
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-63-0
CMF C3 H8 O

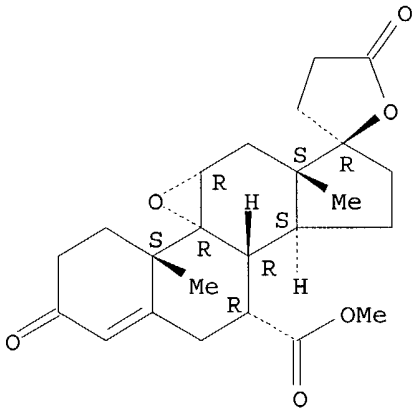


RN 396068-78-3 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with ethanol (1:1) (9CI) (CA INDEX NAME)

CM 1

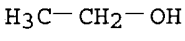
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 64-17-5
CMF C2 H6 O

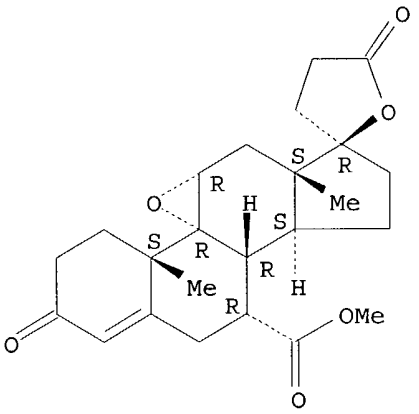


RN 396068-79-4 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with acetic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

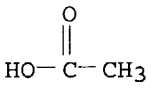
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

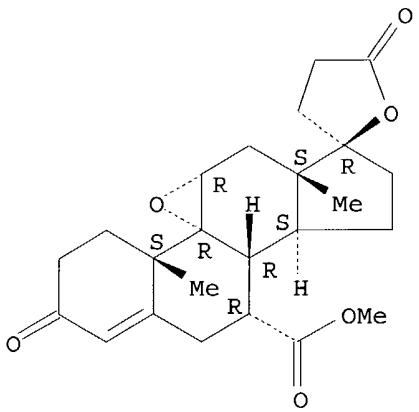


RN 396068-80-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with methyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

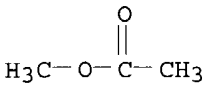
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 79-20-9
CMF C3 H6 O2

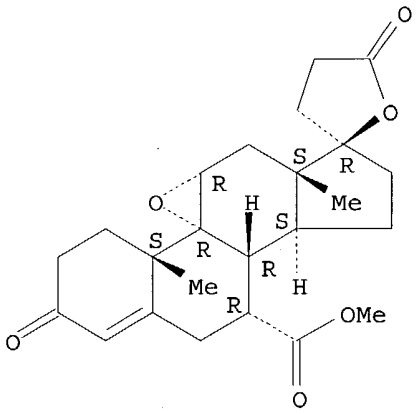


RN 396068-81-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with ethyl propanoate (1:1) (9CI) (CA INDEX NAME)

CM 1

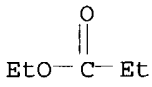
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 105-37-3
CMF C5 H10 O2

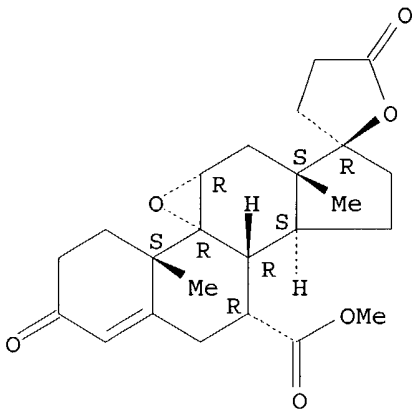


RN 396068-82-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-butanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 71-36-3
CMF C4 H10 O

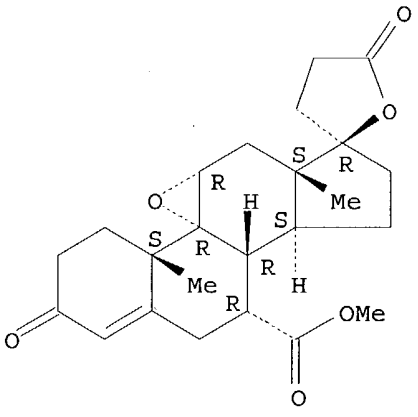
$H_3C-CH_2-CH_2-CH_2-OH$

RN 396068-83-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-propanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 71-23-8
CMF C3 H8 O

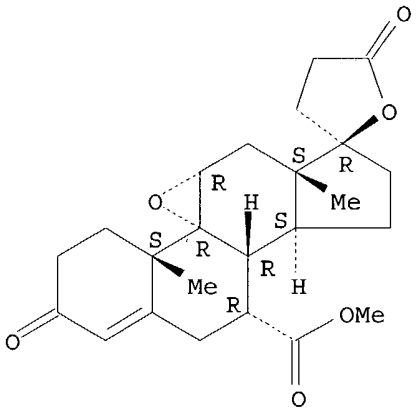
$H_3C-CH_2-CH_2-OH$

RN 396068-84-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with propyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 109-60-4
CMF C5 H10 O2

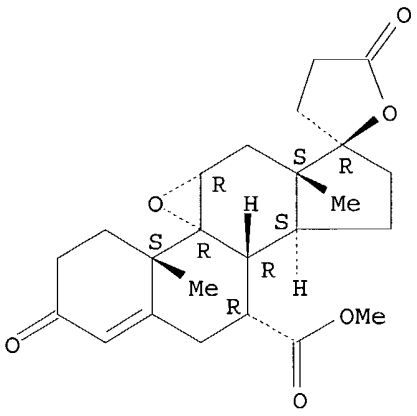
n-Pr-O-Ac

RN 396068-85-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with tetrahydrofuran (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 109-99-9
CMF C4 H8 O

AB A combination therapy comprising a therapeutically effective amount of an epoxy-steroidal aldosterone receptor antagonist and a therapeutically effective amount of a calcium channel blocker is described for treatment of circulatory disorders, including cardiovascular disorders such as hypertension, congestive heart failure, cirrhosis and ascites. Preferred calcium channel blockers are those compds. having high potency and bioavailability. Preferred epoxy-steroidal aldosterone receptor antagonists are 20-spiroxane steroidal compds. characterized by the presence of a 9α,11α-substituted epoxy moiety. A preferred combination therapy includes the calcium channel blocker verapamil-HCl and the aldosterone receptor antagonist epoxymexrenone.

L8 ANSWER 20 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:107159 CAPLUS
DOCUMENT NUMBER: 136:172753
TITLE: Epoxy-steroidal aldosterone antagonist and beta-adrenergic antagonist combination therapy for treatment of congestive heart failure
INVENTOR(S): Alexander, John C.; Schuh, Joseph R.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 190 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002009760	A2	20020207	WO 2001-US23670	20010727
WO 2002009760	A3	20030123		

WO 2002009760 C2 20030904
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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EP 1303306 A2 20030423 EP 2001-957290 20010727
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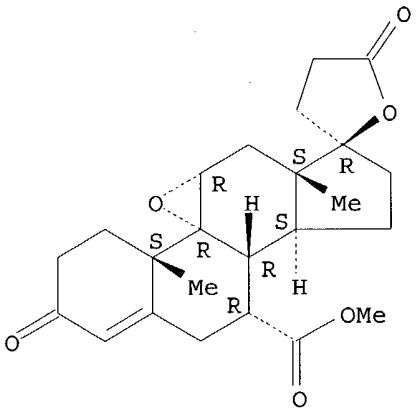
JP 2004511435 T2 20040415 JP 2002-515312 20010727
PRIORITY APPLN. INFO.: US 2000-221365P P 20000727
WO 2001-US23670 W 20010727

IT **344449-96-3**
RL: FMU (Formation, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); FORM (Formation, nonpreparative); USES (Uses)
(epoxy-steroidal aldosterone antagonist and beta-adrenergic antagonist combination therapy for treatment of congestive heart failure)
RN 344449-96-3 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-butanone (9CI) (CA INDEX NAME)

CM 1

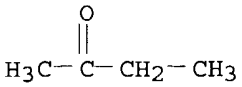
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



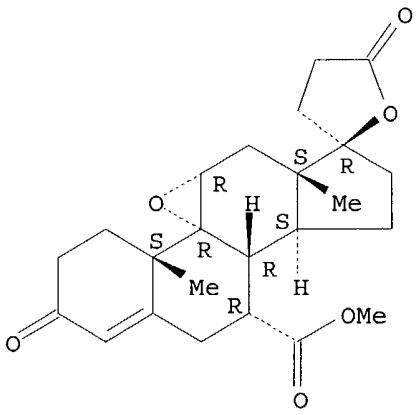
CM 2

CRN 78-93-3
CMF C4 H8 O



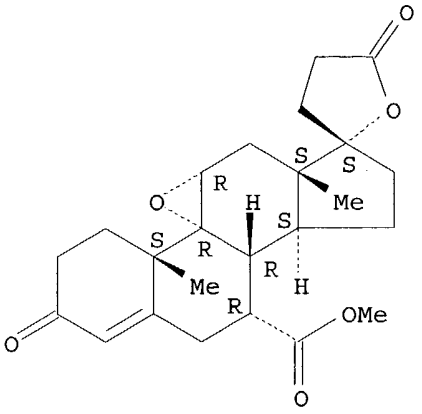
IT **107724-20-9**, Eplerenone
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(epoxy-steroidal aldosterone antagonist and beta-adrenergic antagonist combination therapy for treatment of congestive heart failure)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



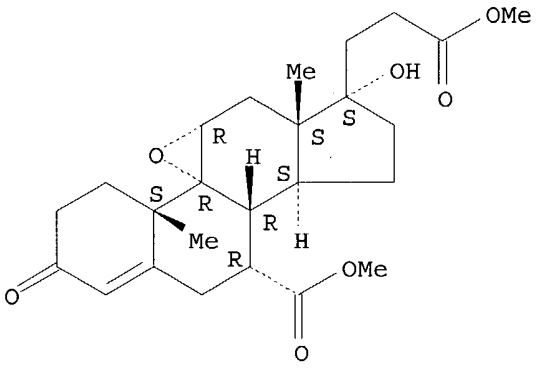
IT **395665-48-2 395665-50-6 395665-54-0**
395665-56-2 395665-66-4 395665-68-6
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(epoxy-steroidal aldosterone antagonist and beta-adrenergic antagonist combination therapy for treatment of congestive heart failure)
RN 395665-48-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



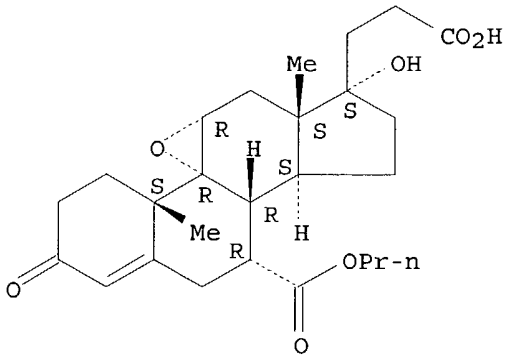
RN 395665-50-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 395665-54-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-propyl ester, monopotassium salt, (7α,11α)- (9CI) (CA INDEX NAME)

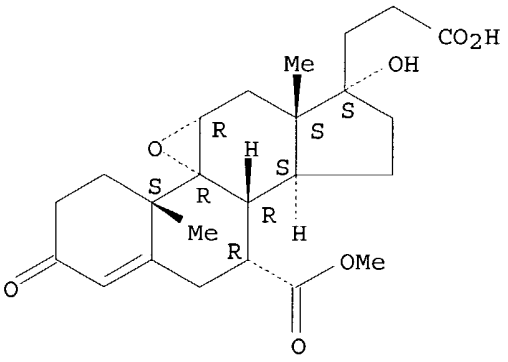
Absolute stereochemistry.



● K

RN 395665-56-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α)- (9CI) (CA INDEX NAME)

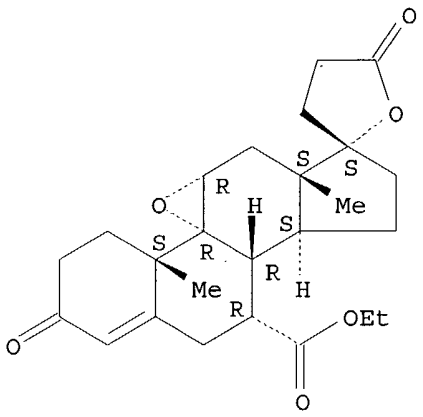
Absolute stereochemistry.



● K

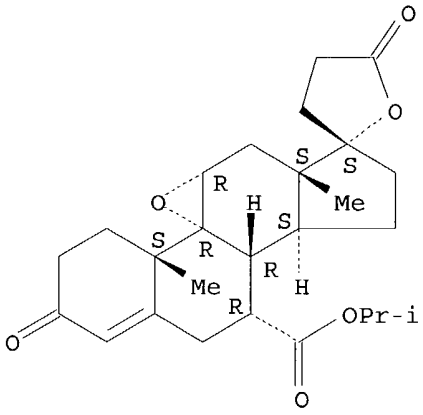
RN 395665-66-4 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 395665-68-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A combination therapy comprising a therapeutically-effective amount of an epoxy-steroidal aldosterone receptor antagonist and a therapeutically-effective amount of a beta-adrenergic antagonist is described for treatment of circulatory disorders, including cardiovascular disorders such as hypertension, congestive heart failure, cirrhosis and ascites. Preferred beta-adrenergic antagonists are those compds. having high potency and bioavailability. Preferred epoxy-steroidal aldosterone receptor antagonists are 20-spiroxane steroidal compds. characterized by the presence of a 9α, 11α-substituted epoxy moiety. A preferred combination therapy includes the beta-adrenergic antagonist metoprolol succinate and the aldosterone receptor antagonist epoxymexrenone. Crystal forms of eplerenone were prepared as well as the Me Et ketone solvate.

L8 ANSWER 21 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:107158 CAPLUS
DOCUMENT NUMBER: 136:161365
TITLE: Aldosterone antagonist-cyclooxygenase-2 inhibitor combination therapy to prevent or treat

inflammation-related cardiovascular disorders
INVENTOR(S): Rocha, Ricardo; Zack, Marc D.; McMahon, Ellen G.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 273 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002009759	A2	20020207	WO 2001-US23601	20010726
WO 2002009759	A3	20021128		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1303308	A2	20030423	EP 2001-961746	20010726
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2003125312	A1	20030703	US 2001-915784	20010726
US 6716829	B2	20040406		
JP 2004505060	T2	20040219	JP 2002-515311	20010726
US 2003191100	A1	20031009	US 2002-243876	20020913

PRIORITY APPLN. INFO.:

US 2000-221364P	P	20000727
US 2001-261497P	P	20010112
US 1999-164390P	P	19991109
US 2000-211064P	P	20000613
US 2000-211250P	P	20000613
US 2000-211253P	P	20000613
US 2000-211264P	P	20000613
US 2000-211311P	P	20000613
US 2000-211340P	P	20000613
US 2000-211451P	P	20000613
US 2000-211459P	P	20000613
US 2000-221358P	P	20000727
US 2000-233056P	P	20000914
US 2000-709253	A2	20001108
US 2000-712543	A1	20001114
US 2001-261352P	P	20010112
WO 2001-US23601	W	20010726

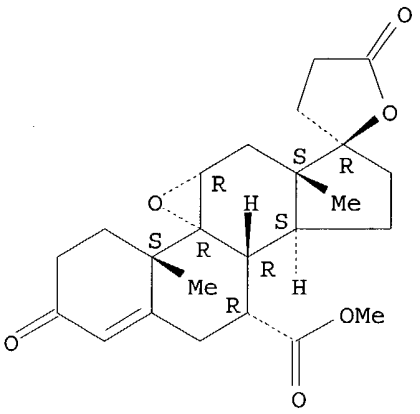
OTHER SOURCE(S): MARPAT 136:161365
IT **396068-72-7P**
RL: PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation) (aldosterone antagonist-cyclooxygenase-2 inhibitor combination therapy to prevent or treat inflammation-related cardiovascular 1)
RN 396068-72-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-butanone (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9

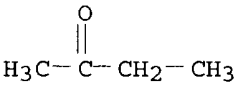
CMF C24 H30 O6

Absolute stereochemistry.



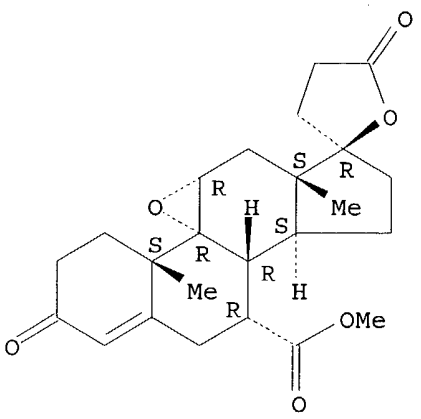
CM 2

CRN 78-93-3
CMF C4 H8 O



IT **107724-20-9**
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aldosterone antagonist-cyclooxygenase-2 inhibitor combination therapy to prevent or treat inflammation-related cardiovascular disorders)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

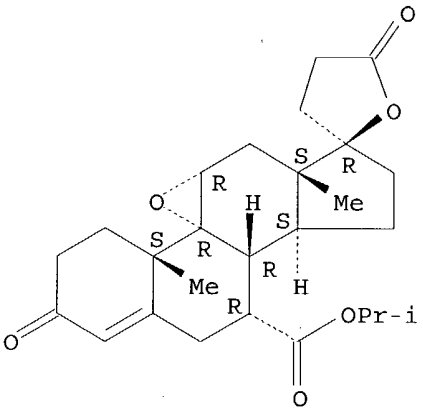


IT **95716-76-0 95716-78-2 95716-98-6**
95716-99-7 95717-02-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aldosterone antagonist-cyclooxygenase-2 inhibitor combination therapy to prevent or treat inflammation-related cardiovascular disorders)

RN 95716-76-0 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

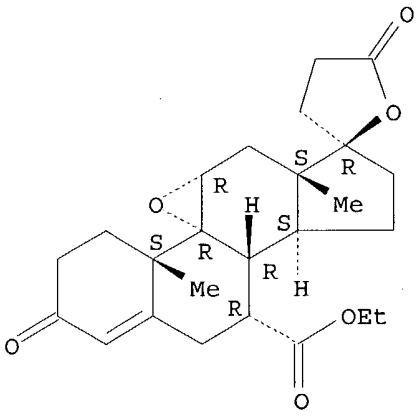
Absolute stereochemistry. Rotation (-).



RN 95716-78-2 CAPLUS

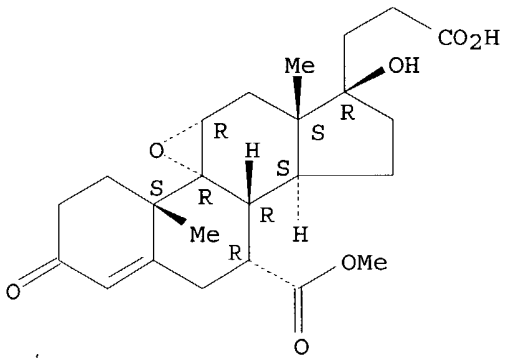
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

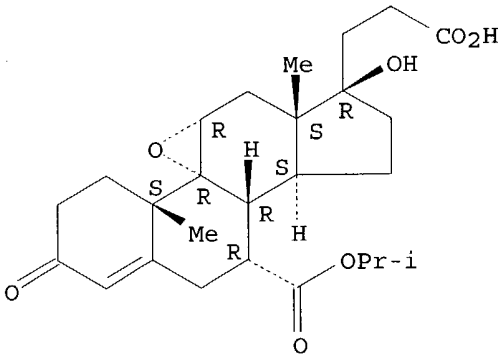
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

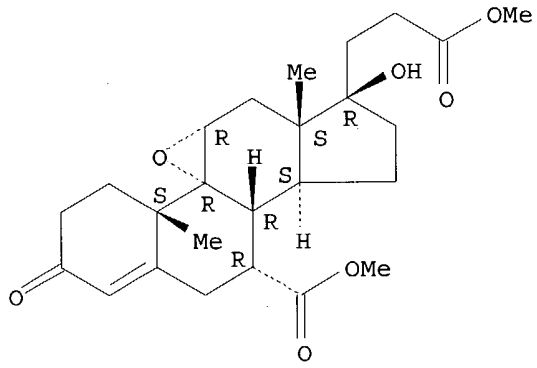
Absolute stereochemistry.



● K

RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

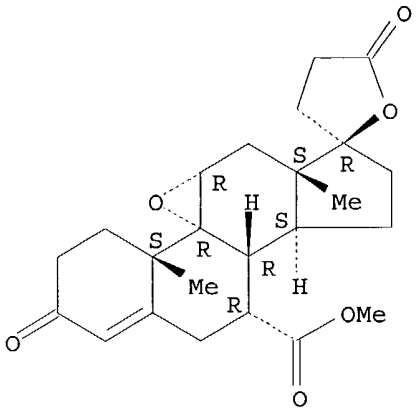


IT **344450-01-7 344450-03-9 344450-04-0**
344450-09-5 344450-11-9 396068-73-8
396068-74-9 396068-76-1 396068-77-2
396068-78-3 396068-79-4 396068-80-7
396068-81-8 396068-82-9 396068-83-0
396068-84-1 396068-85-2
RL: PRP (Properties)
(aldosterone antagonist-cyclooxygenase-2 inhibitor combination therapy to prevent or treat inflammation-related cardiovascular disorders)
RN 344450-01-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with butyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 123-86-4
CMF C6 H12 O2

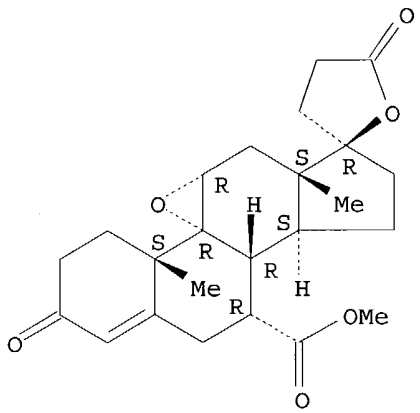
n-Bu—O—Ac

RN 344450-03-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1,1-dimethylethyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 540-88-5
CMF C6 H12 O2

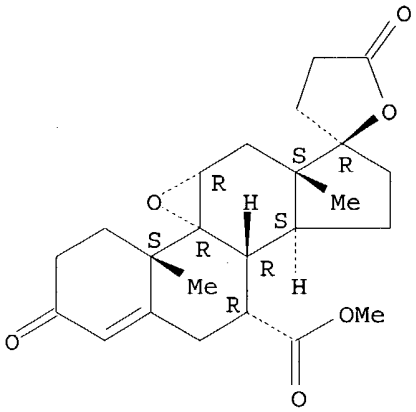
t-Bu—O—Ac

RN 344450-04-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with trichloromethane (9CI) (CA INDEX NAME)

CM 1

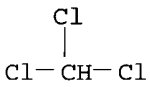
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-66-3
CMF C H Cl3

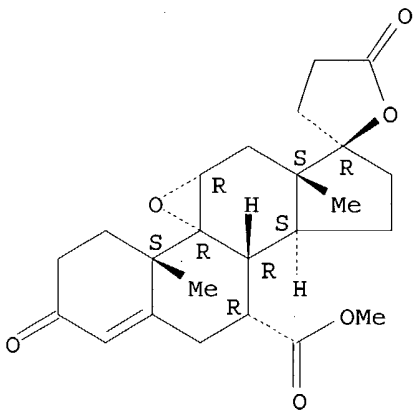


RN 344450-09-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-octanol (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 111-87-5
CMF C8 H18 O

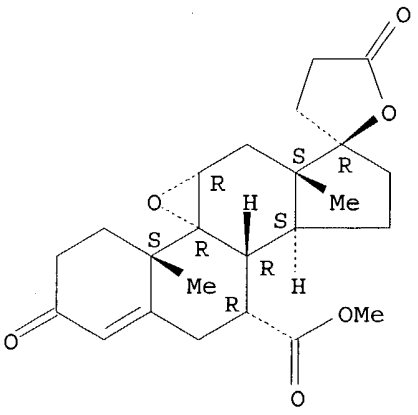
$HO-(CH_2)_7-Me$

RN 344450-11-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

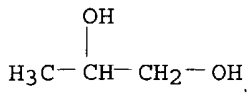
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 57-55-6
CMF C3 H8 O2

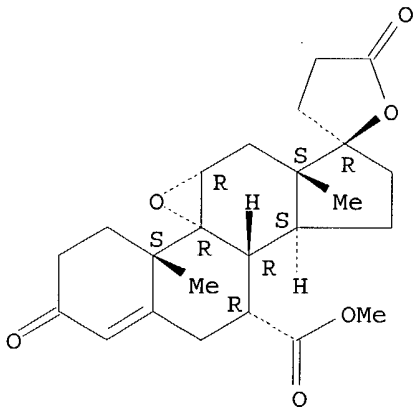


RN 396068-73-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-propanone (1:1) (9CI) (CA INDEX NAME)

CM 1

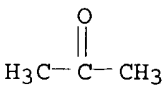
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-64-1
CMF C3 H6 O

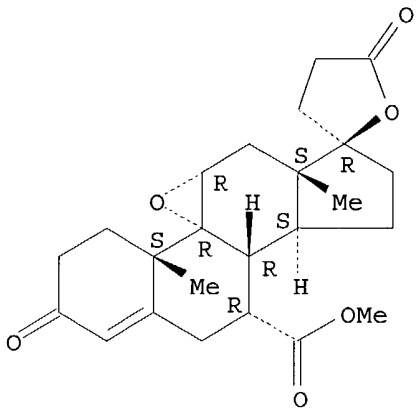


RN 396068-74-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with methylbenzene (1:1) (9CI) (CA INDEX NAME)

CM 1

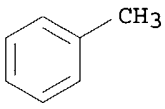
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 108-88-3
CMF C7 H8

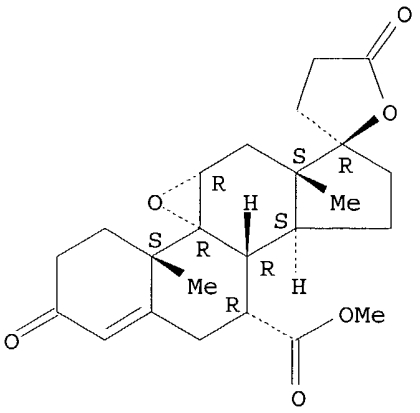


RN 396068-76-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-methylpropyl acetate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 110-19-0
CMF C6 H12 O2

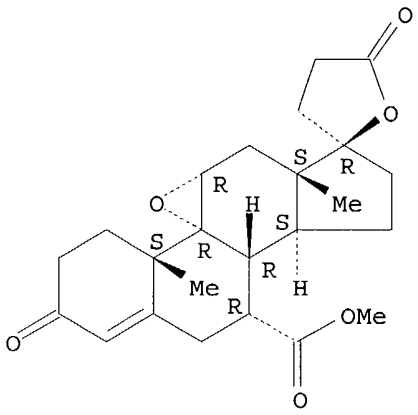
i-Bu—O—Ac

RN 396068-77-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-propanol (1:1) (9CI) (CA INDEX NAME)

CM 1

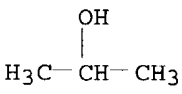
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-63-0
CMF C3 H8 O



RN 396068-78-3 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with ethanol (1:1) (9CI) (CA INDEX NAME)

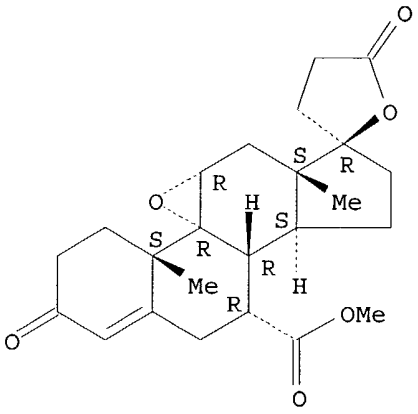
CM 1

CRN 107724-20-9

10/608,101

CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 64-17-5
CMF C2 H6 O

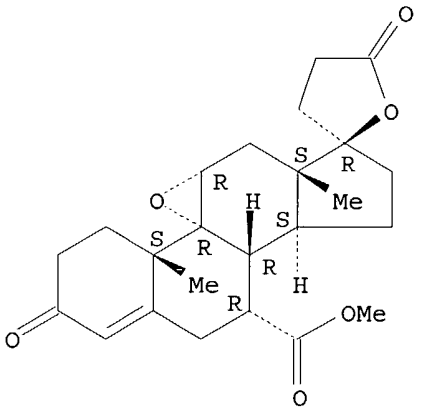
H_3C-CH_2-OH

RN 396068-79-4 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with acetic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

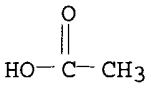
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

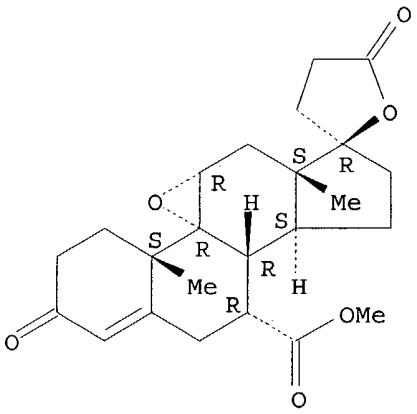


RN 396068-80-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with methyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

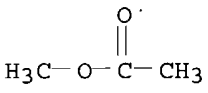
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 79-20-9
CMF C3 H6 O2

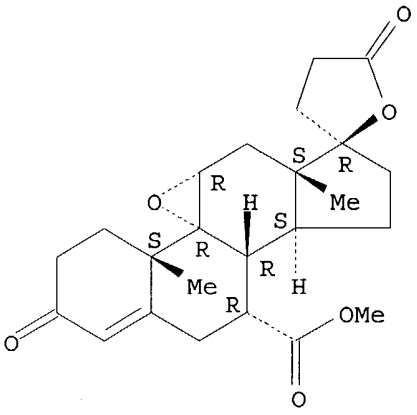


RN 396068-81-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with ethyl propanoate (1:1) (9CI) (CA INDEX NAME)

CM 1

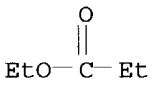
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 105-37-3
CMF C5 H10 O2

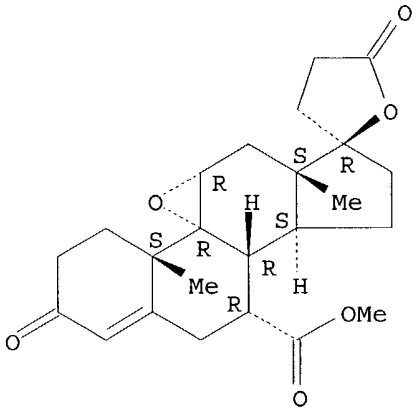


RN 396068-82-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-butanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 71-36-3
CMF C4 H10 O

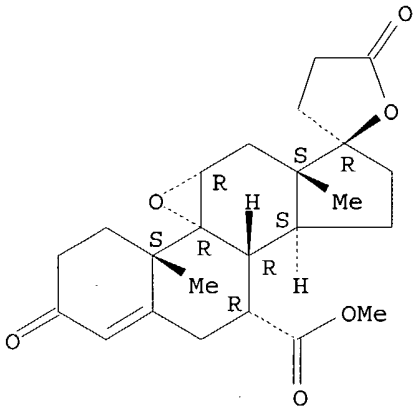
$H_3C-CH_2-CH_2-CH_2-OH$

RN 396068-83-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-propanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 71-23-8
CMF C3 H8 O

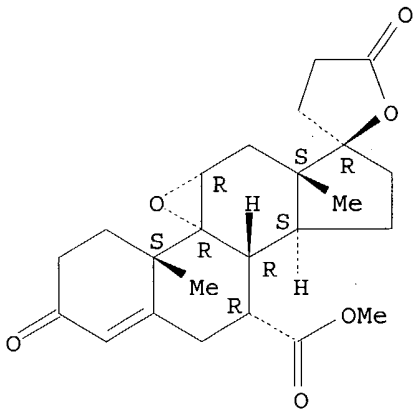
$H_3C-CH_2-CH_2-OH$

RN 396068-84-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with propyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 109-60-4
CMF C5 H10 O2

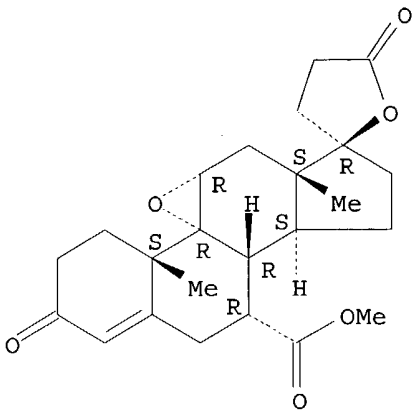
n-Pr-O-Ac

RN 396068-85-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with tetrahydrofuran (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 109-99-9
CMF C4 H8 O

AB Combinations of aldosterone blockers and Cyclooxygenase-2 inhibitors useful in the treatment of inflammation-related cardiovascular disorders are disclosed.

L8 ANSWER 22 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:107086 CAPLUS
DOCUMENT NUMBER: 136:161353
TITLE: Aldosterone blocker therapy to prevent or treat inflammation-related disorders
INVENTOR(S): Rocha, Richardo; Zack, Marc D.; McMahon, Ellen G.; Blasi, Eileen R.
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 210 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002009683	A2	20020207	WO 2001-US23520	20010726
WO 2002009683	C2	20030612		
WO 2002009683	A3	20030912		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003125312	A1	20030703	US 2001-915784	20010726
US 6716829	B2	20040406		
US 2003162759	A1	20030828	US 2001-916136	20010726
EP 1368009	A2	20031210	EP 2001-959222	20010726
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JP 2004518611	T2	20040624	JP 2002-515236	20010726
US 2003191100	A1	20031009	US 2002-243876	20020913

PRIORITY APPLN. INFO.:

US 2000-221358P	P	20000727
US 2001-261352P	P	20010112
US 1999-164390P	P	19991109
US 2000-211064P	P	20000613
US 2000-211250P	P	20000613
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US 2000-211311P	P	20000613
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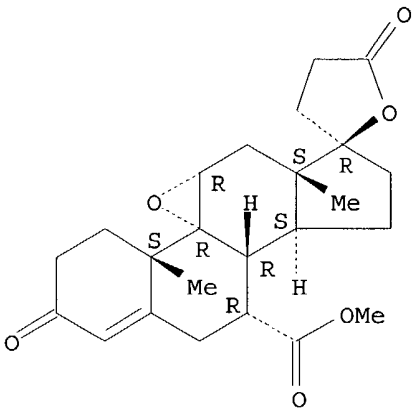
US 2000-709253	A2	20001108
US 2000-712543	A1	20001114
US 2001-261497P	P	20010112
WO 2001-US23520	W	20010726

IT **107724-20-9**, Eplerenone
RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(adosterone blocker therapy to prevent or treat inflammation-related disorder)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

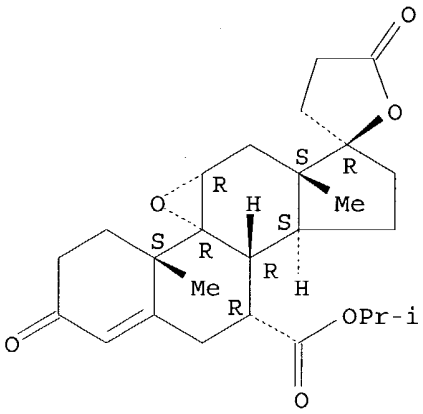


IT **95716-76-0 95716-78-2 95716-98-6 95716-99-7 95717-02-5**
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)
(adosterone blocker therapy to prevent or treat inflammation-related disorder)

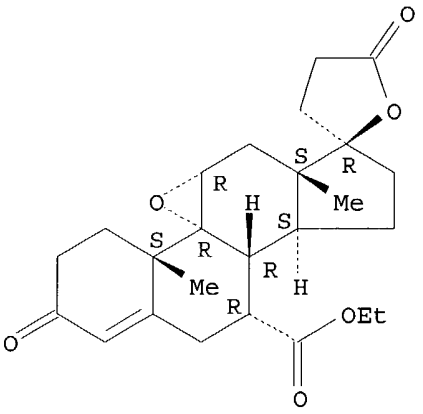
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



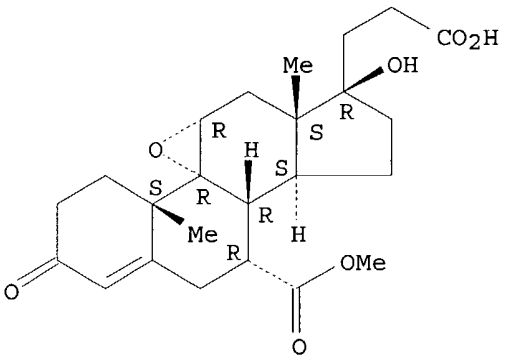
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

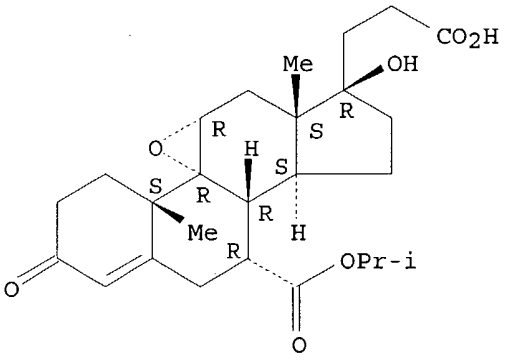
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

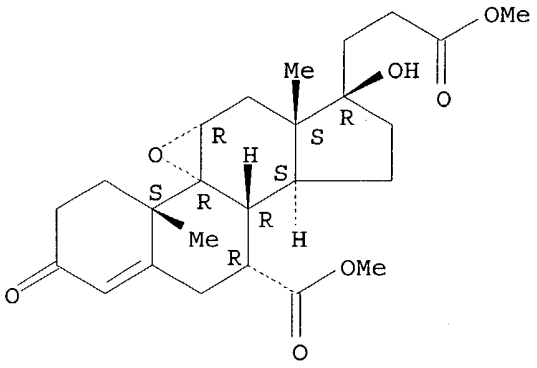
Absolute stereochemistry.



● K

RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **344450-03-9 344450-04-0 344450-09-5**
344450-11-9 396068-72-7 396068-73-8
396068-74-9 396068-76-1 396068-77-2
396068-78-3 396068-79-4 396068-80-7
396068-81-8 396068-82-9 396068-83-0
396068-84-1 396068-85-2 396077-49-9
RL: PRP (Properties)
(adosterone blocker therapy to prevent or treat inflammation-related disorder)

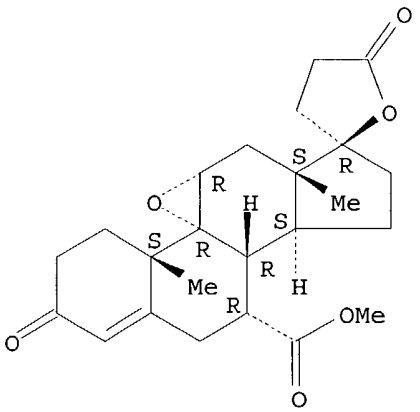
RN 344450-03-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1,1-dimethylethyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 540-88-5
CMF C6 H12 O2

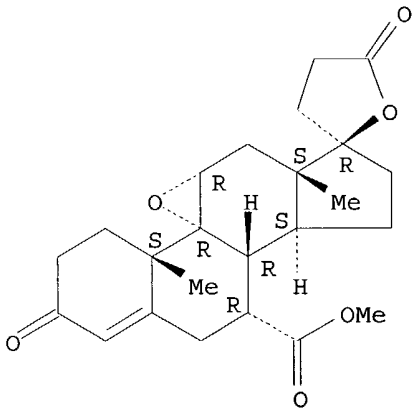
t-Bu—O—Ac

RN 344450-04-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with trichloromethane (9CI) (CA INDEX NAME)

CM 1

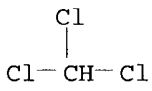
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-66-3
CMF C H Cl3

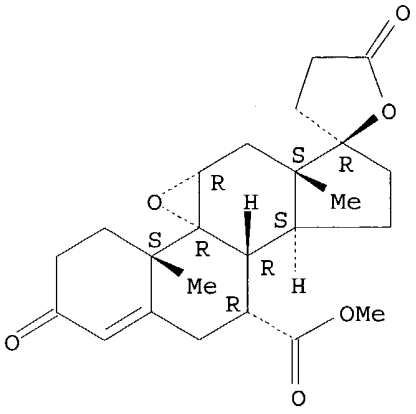


RN 344450-09-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-octanol (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 111-87-5
CMF C8 H18 O

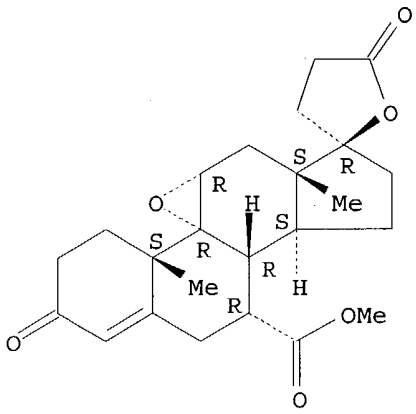
$HO-(CH_2)_7-Me$

RN 344450-11-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1,2-propanediol (9CI) (CA INDEX NAME)

CM 1

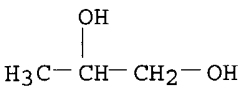
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 57-55-6
CMF C3 H8 O2

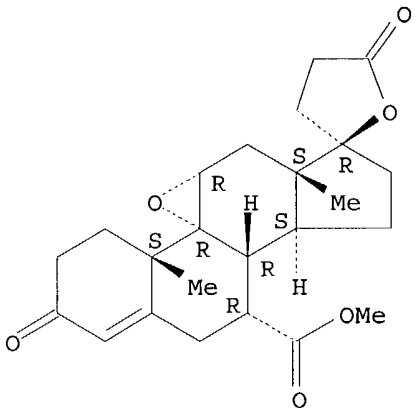


RN 396068-72-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-butanone (1:1) (9CI) (CA INDEX NAME)

CM 1

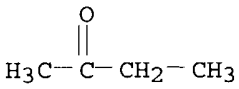
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 78-93-3
CMF C4 H8 O

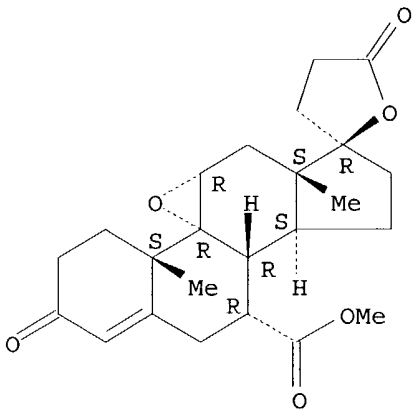


RN 396068-73-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-propanone (1:1) (9CI) (CA INDEX NAME)

CM 1

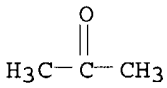
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-64-1
CMF C3 H6 O

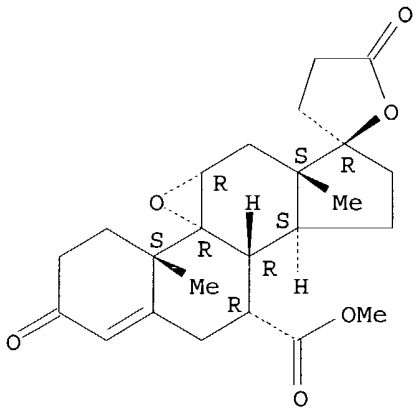


RN 396068-74-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with methylbenzene (1:1) (9CI) (CA INDEX NAME)

CM 1

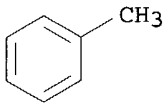
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 108-88-3
CMF C7 H8

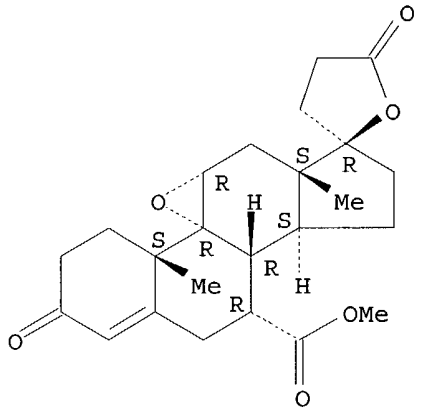


RN 396068-76-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-methylpropyl acetate (2:1) (9CI) (CA INDEX NAME)

CM 1

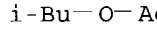
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 110-19-0
CMF C6 H12 O2



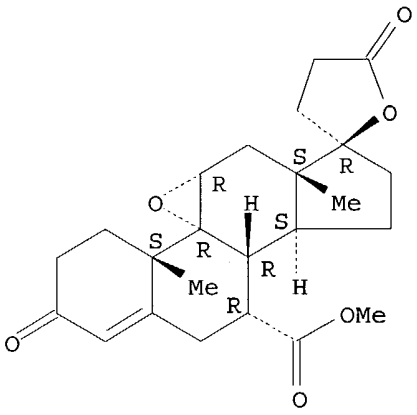
RN 396068-77-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 2-propanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9

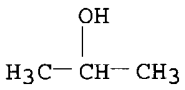
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 67-63-0
CMF C3 H8 O

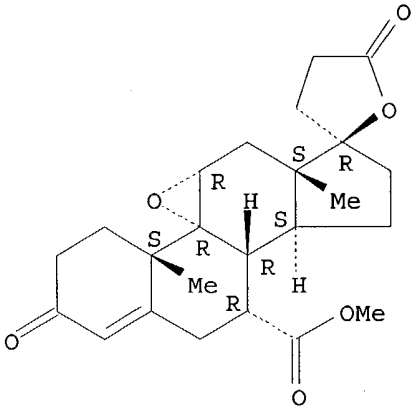


RN 396068-78-3 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with ethanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 64-17-5
CMF C2 H6 O

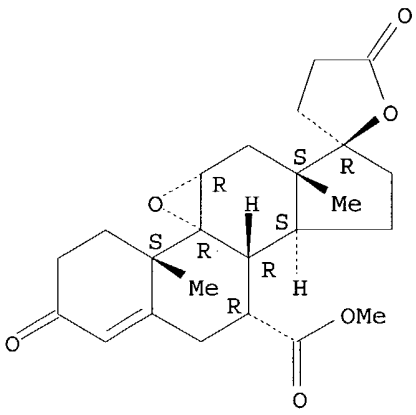
H_3C-CH_2-OH

RN 396068-79-4 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with acetic acid (2:1) (9CI) (CA INDEX NAME)

CM 1

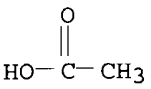
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 64-19-7
CMF C2 H4 O2

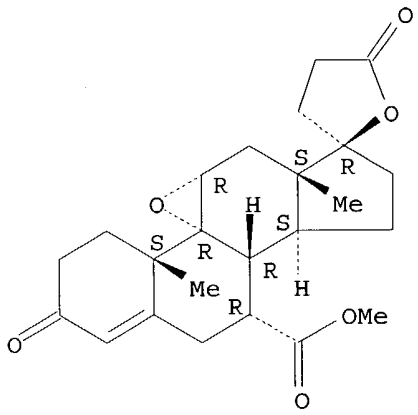


RN 396068-80-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with methyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

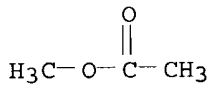
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 79-20-9
CMF C3 H6 O2

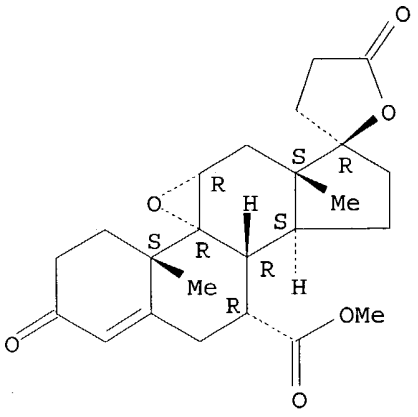


RN 396068-81-8 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with ethyl propanoate (1:1) (9CI) (CA INDEX NAME)

CM 1

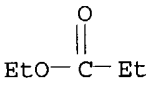
CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 105-37-3
CMF C5 H10 O2

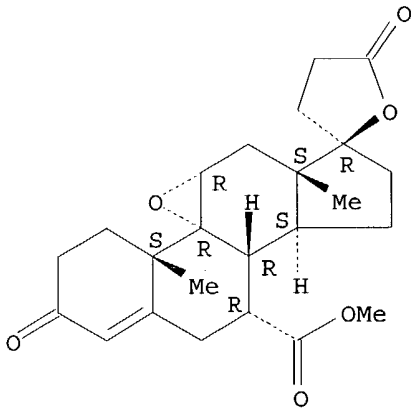


RN 396068-82-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-butanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 71-36-3
CMF C4 H10 O

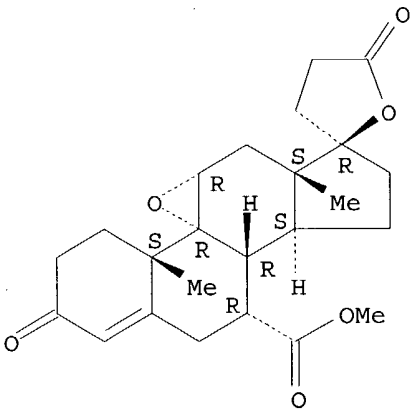
$H_3C-CH_2-CH_2-CH_2-OH$

RN 396068-83-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with 1-propanol (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 71-23-8
CMF C3 H8 O

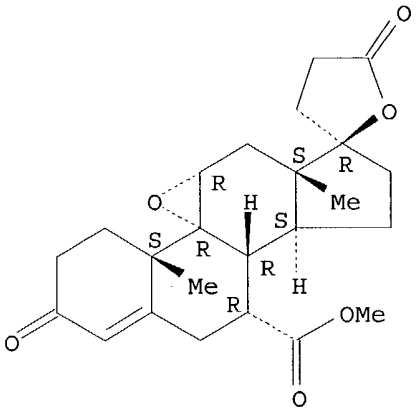
$H_3C-CH_2-CH_2-OH$

RN 396068-84-1 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with propyl acetate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 109-60-4
CMF C5 H10 O2

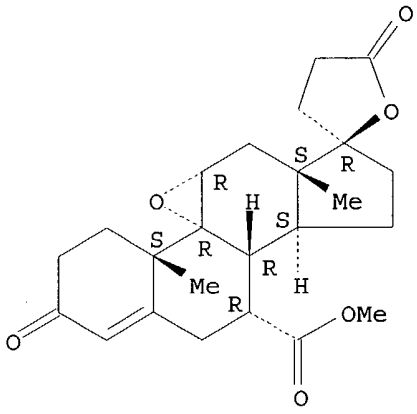
n-Pr—O—Ac

RN 396068-85-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with tetrahydrofuran (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

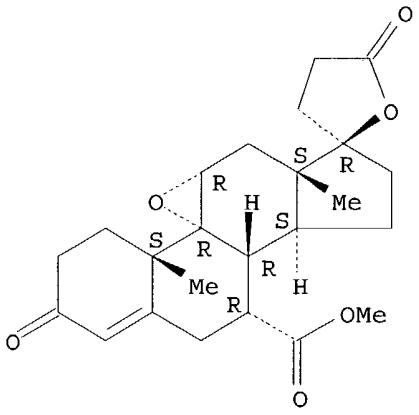
CRN 109-99-9
CMF C4 H8 O

RN 396077-49-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)-, compd. with butyl acetate (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 107724-20-9
CMF C24 H30 O6

Absolute stereochemistry.



CM 2

CRN 123-86-4
CMF C6 H12 O2

n-Bu—O—Ac

AB Aldosterone blockers used for the treatment and prevention of inflammation are disclosed.

L8 ANSWER 23 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:923600 CAPLUS
DOCUMENT NUMBER: 136:31688
TITLE: Use of an epoxy-steroidal aldosterone antagonist for the treatment or prophylaxis of aldosterone-mediated pathogenic effects
INVENTOR(S): Williams, Gordon H.; Funder, John W.; Garthwaite, Susan M.; Roniker, Barbara; Fedde, Kenton N.; Rocha, Ricardo

PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 318 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

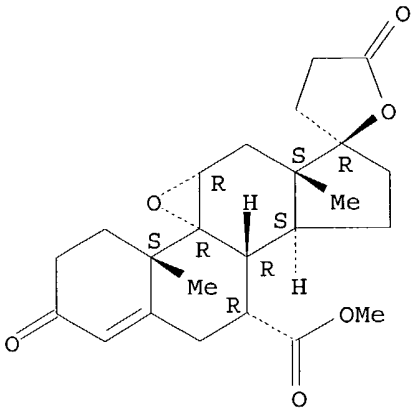
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001095893	A1	20011220	WO 2000-US31263	20001114
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2003125312	A1	20030703	US 2001-915784	20010726
US 6716829	B2	20040406		
US 2003191100	A1	20031009	US 2002-243876	20020913

PRIORITY APPLN. INFO.:

US 2000-211064P	P	20000613
US 2000-211250P	P	20000613
US 2000-211253P	P	20000613
US 2000-211264P	P	20000613
US 2000-211311P	P	20000613
US 2000-211340P	P	20000613
US 2000-211451P	P	20000613
US 2000-211459P	P	20000613
US 2000-221358P	P	20000727
US 2000-221364P	P	20000727
US 2000-233056P	P	20000914
US 1999-164390P	P	19991109
US 2000-709253	A2	20001108
US 2000-712543	A1	20001114
US 2001-261352P	P	20010112
US 2001-261497P	P	20010112

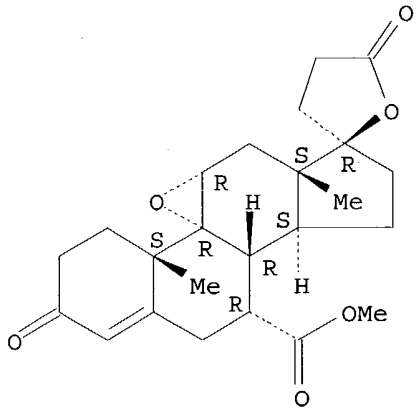
IT **107724-20-9DP**, Eplerenone, derivs.
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(antihypertensive, renal, and metabolic effects of eplerenone and enalapril in patients with type 2 diabetes, albuminuria, and hypertension)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



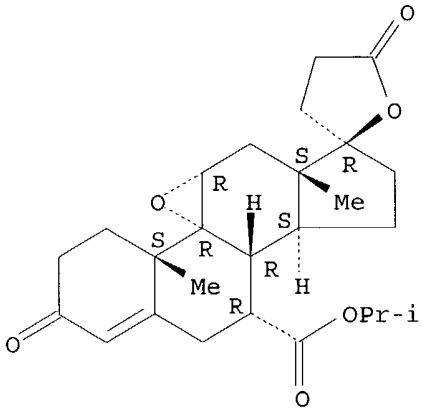
IT **107724-20-9P**, Eplerenone
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(use of epoxy-steroidal aldosterone antagonist for treatment or prophylaxis of aldosterone-mediated pathogenic effects)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



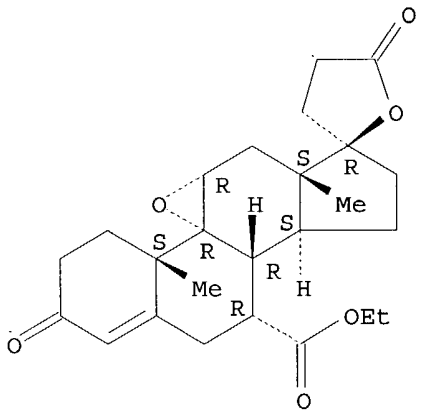
IT **95716-76-0P 95716-78-2P 95716-98-6P**
95716-99-7P 95717-02-5P
RL: PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(use of epoxy-steroidal aldosterone antagonist for treatment or prophylaxis of aldosterone-mediated pathogenic effects)
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



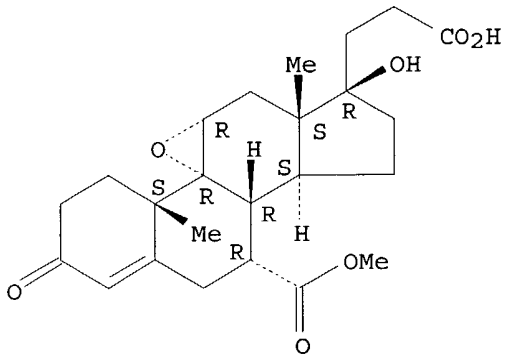
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

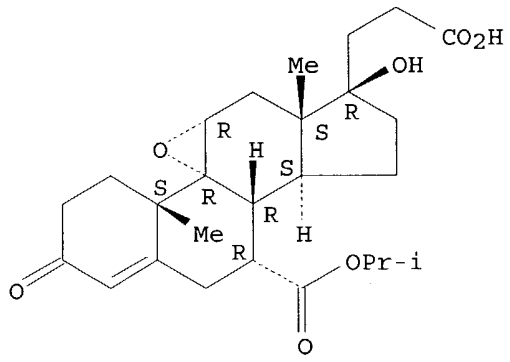
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

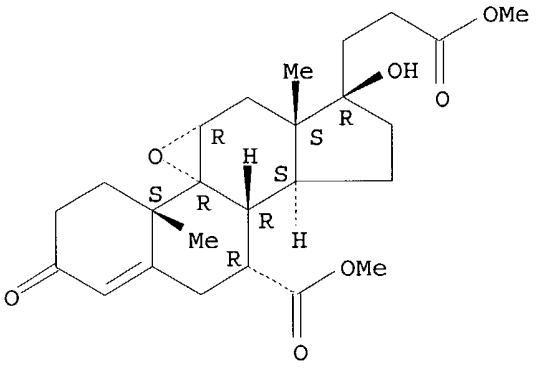
Absolute stereochemistry.



● K

RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The present invention provides methods for the treatment or prophylaxis of one or more aldosterone-mediated pathogenic effects in a subject suffering from or susceptible to the pathogenic effect or effects wherein the subject has one or more conditions selected from the group consisting of a sub-normal endogenous aldosterone level, salt sensitivity and an elevated dietary sodium intake. The methods comprise administering to the subject a therapeutically-effective amount of one or more epoxy-steroidal compds. that are aldosterone antagonists. The epoxy-steroidal compds. can be administered as solvated or nonsolvated crystals or in an amorphous form. In addition to use of the epoxy-steroidal compds., their formulation and crystallization are exemplified.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 24 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:923599 CAPLUS
DOCUMENT NUMBER: 136:31687
TITLE: Use of an aldosterone antagonist, specifically a spirolactone-type steroidal compound, for the treatment or prophylaxis of aldosterone-mediated pathogenic effects
INVENTOR(S): Williams, Gordon H.; Funder, John W.; Garthwaite, Susan M.; Roniker, Barbara; Fedde, Kenton N.; Rocha, Ricardo
PATENT ASSIGNEE(S): Pharmacia Corporation, USA
SOURCE: PCT Int. Appl., 329 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001095892	A1	20011220	WO 2000-US31155	20001114

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

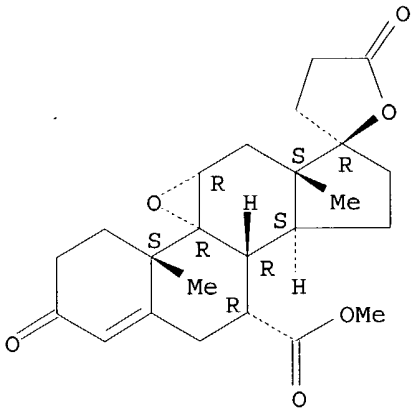
EP 1289507	A1	20030312	EP 2000-978588	20001114
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004503495	T2	20040205	JP 2002-510071	20001114
US 2003125312	A1	20030703	US 2001-915784	20010726
US 6716829	B2	20040406		
US 2003191100	A1	20031009	US 2002-243876	20020913
PRIORITY APPLN. INFO.:			US 2000-211064P	P 20000613
			US 2000-211250P	P 20000613
			US 2000-211253P	P 20000613
			US 2000-211264P	P 20000613
			US 2000-211311P	P 20000613
			US 2000-211340P	P 20000613
			US 2000-211451P	P 20000613
			US 2000-211459P	P 20000613
			US 2000-221358P	P 20000727
			US 2000-221364P	P 20000727
			US 2000-233056P	P 20000914
			US 1999-164390P	P 19991109
			US 2000-709253	A2 20001108
			US 2000-712543	A1 20001114
			WO 2000-US31155	W 20001114
			US 2001-261352P	P 20010112
			US 2001-261497P	P 20010112

IT **107724-20-9P**, Eplerenone
RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PKT (Pharmacokinetics); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(use of aldosterone antagonist for treatment or prophylaxis of aldosterone-mediated pathogenic effects)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



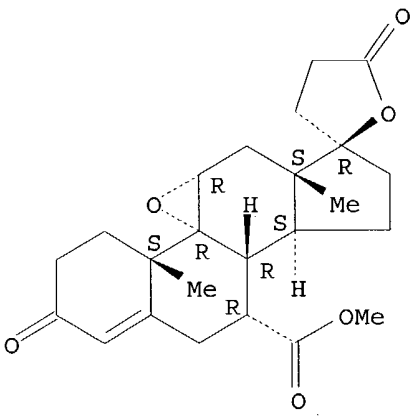
IT **107724-20-9DP**, Eplerenone, derivs.
RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(use of aldosterone antagonist, specifically a spirolactone-type steroidal compound, for treatment or prophylaxis of aldosterone-mediated pathogenic effects)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB The present invention provides methods for the treatment or prophylaxis of one or more aldosterone-mediated pathogenic effects in a subject suffering from or susceptible to the pathogenic effect or effects wherein the subject has one or more conditions selected from the group consisting of a sub-normal endogenous aldosterone level, salt sensitivity and an elevated dietary sodium intake. The methods comprise administering to the subject a therapeutically-effective amount of one or more aldosterone antagonists, more specifically a spirolactone-type steroidal compound The compds. can be administered as solvated or non-solvated crystals or in an amorphous form. In addition to use of the compds., their formulation and crystallization are exemplified.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 25 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:359782 CAPLUS

DOCUMENT NUMBER: 134:361365

TITLE: Methods for treating, inhibiting or preventing pathogenic change resulting from vascular injury with an aldosterone antagonist

INVENTOR(S): Delyani, John A.; Fedde, Kenton N.; Funder, John W.; Ward, Michael R.; Kanellakis, Peter; Bobik, Alex

PATENT ASSIGNEE(S): Pharmacia Corporation, USA

SOURCE: PCT Int. Appl., 57 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001034132	A2	20010517	WO 2000-US30853	20001108

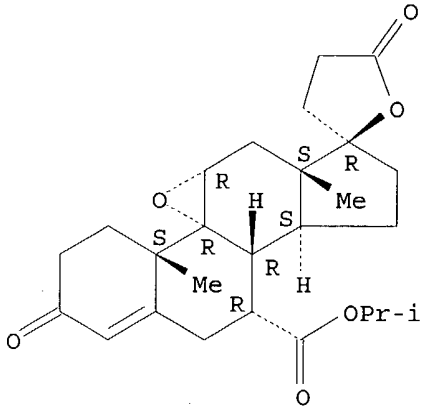
WO 2001034132 A3 20020124
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1227804 A2 20020807 EP 2000-977121 20001108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2003513913 T2 20030415 JP 2001-536132 20001108
WO 2003051372 A1 20030626 WO 2001-US48419 20011213
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
US 2003191100 A1 20031009 US 2002-243876 20020913
PRIORITY APPLN. INFO.: US 1999-164390P P 19991109
US 2000-211064P P 20000613
US 2000-211250P P 20000613
US 2000-211253P P 20000613
US 2000-211264P P 20000613
US 2000-211311P P 20000613
US 2000-211340P P 20000613
US 2000-211451P P 20000613
US 2000-211459P P 20000613
US 2000-221358P P 20000727
US 2000-221364P P 20000727
US 2000-233056P P 20000914
US 2000-709253 A2 20001108
WO 2000-US30853 W 20001108
US 2000-712543 A1 20001114

IT **95716-76-0 95716-78-2 95716-98-6**
95716-99-7 95717-02-5 107724-20-9
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aldosterone antagonist for treating, inhibiting or preventing pathogenic change resulting from vascular injury)

RN 95716-76-0 CAPLUS

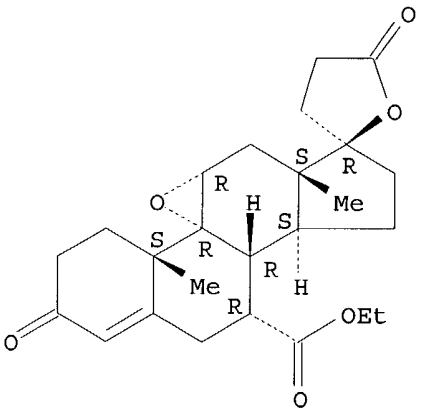
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



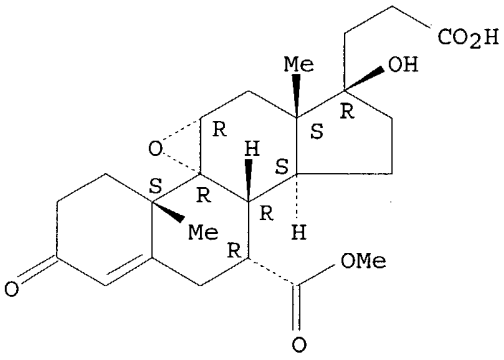
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

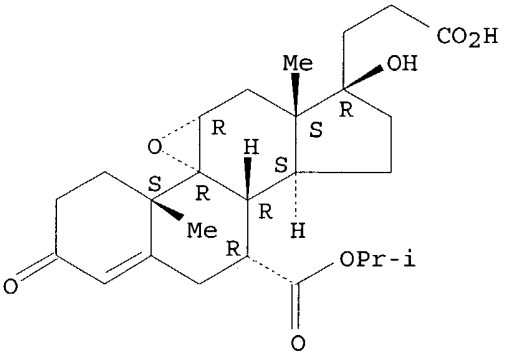
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

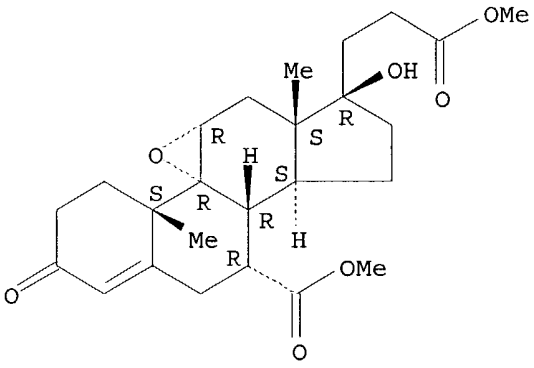
Absolute stereochemistry.



● K

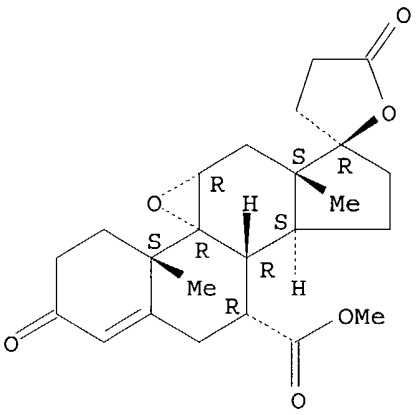
RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Methods are provided for treating, inhibiting or preventing pathogenic change resulting from vascular injury in a subject, particularly restenosis resulting substantially from angioplasty. The methods comprise administering a therapeutically-effective amount of an aldosterone antagonist, particularly eplerenone, in a mammalian subject susceptible to or suffering from the pathogenic change.

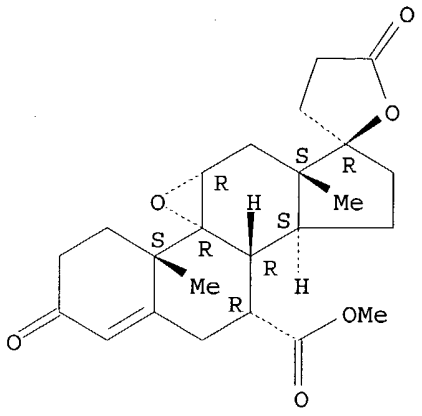
L8 ANSWER 26 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2000:628026 CAPLUS
DOCUMENT NUMBER: 133:227793
TITLE: Combination therapy of angiotensin converting enzyme inhibitor and epoxy-steroidal aldosterone antagonist for treatment of cardiovascular disease
INVENTOR(S): Alexander, John C.; Roniker, Barbara; Desai, Subhash
PATENT ASSIGNEE(S): G.D. Searle and Co., USA
SOURCE: PCT Int. Appl., 212 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000051642	A1	20000908	WO 2000-US5633	20000303
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1165136	A1	20020102	EP 2000-912174	20000303
EP 1165136	B1	20030910		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200102581	T2	20020422	TR 2001-200102581	20000303
BR 2000008781	A	20020702	BR 2000-8781	20000303
JP 2002538172	T2	20021112	JP 2000-602308	20000303
AT 249242	E	20030915	AT 2000-912174	20000303
EP 1382351	A1	20040121	EP 2003-19610	20000303
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
ZA 2001007779	A	20021220	ZA 2001-7779	20010920
US 2004077611	A1	20040422	US 2003-440691	20030519
NZ 529635	A	20031219	NZ 2003-529635	20031119
PRIORITY APPLN. INFO.:			US 1999-122977P P	19990305
			US 1999-122978P P	19990305
			EP 2000-912174 A3	20000303
			US 2000-518854 B1	20000303
			WO 2000-US5633 W	20000303

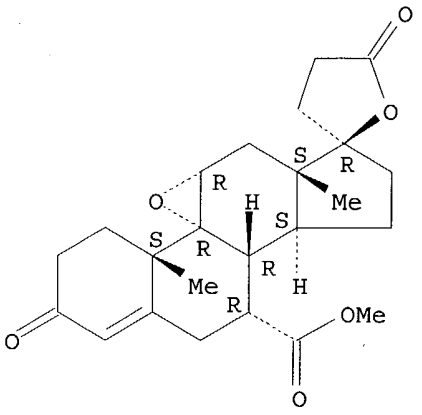
IT **107724-20-9**, Eplerenone
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(combination therapy of angiotensin converting enzyme inhibitor and epoxy-steroidal aldosterone antagonist for treatment of cardiovascular disease)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **107724-20-9DP**, Eplerenone, derivs.
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(combination therapy of angiotensin converting enzyme inhibitor and epoxy-steroidal aldosterone antagonist for treatment of cardiovascular disease)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Combinations of an ACE inhibitor and an epoxy-steroidal aldosterone receptor antagonist are described for use in treatment of circulatory disorders. Of particular interest are therapies using epoxy-steroidal-type aldosterone receptor antagonist compds., such as eplerenone, in combination with an angiotensin converting enzyme inhibitor. This co-therapy would be particularly useful to treat congestive heart failure while avoiding or reducing aldosterone-antagonist-induced side effects such as hyperkalemia. Capsules were prepared containing captopril 62.0 and eplerenone 12.5 mg/capsule.
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 27 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
ACCESSION NUMBER: 1998:405970 CAPLUS
DOCUMENT NUMBER: 129:81885
TITLE: Processes for preparation of **9,11-epoxy steroids** and their intermediates
INVENTOR(S): Ng, John S.; Liu, Chin; Anderson, Dennis K.; Lawson, Jon P.; Wieczorek, Joseph; Kunda, Sastry A.; Letendre, Leo J.; Pozzo, Mark J.; Sing, Yuen-lung L.; Wang, Ping T.; Yonan, Edward E.; Weier, Richard M.; Kowar, Thomas R.; Baez, Julio A.; Erb, Bernhard
PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Ng, John S.; Liu, Chin; Anderson, Dennis K.; Lawson, Jon P.; Wieczorek, Joseph; Kunda, Sastry A.; Letendre, Leo J.; Pozzo, Mark J.; et al.
SOURCE: PCT Int. Appl., 543 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9825948	A2	19980618	WO 1997-US23090	19971211
WO 9825948	A3	19981015		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
ZA 9711038	A	19990125	ZA 1997-11038	19971209
AU 9857983	A1	19980703	AU 1998-57983	19971211
AU 733559	B2	20010517		
EP 944644	A2	19990929	EP 1997-954126	19971211
EP 944644	B1	20021002		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1253564	A	20000517	CN 1997-181737	19971211
BR 9714510	A	20001128	BR 1997-14510	19971211
NZ 336004	A	20010427	NZ 1997-336004	19971211
JP 2001509792	T2	20010724	JP 1998-527032	19971211
EP 1148061	A2	20011024	EP 2001-111209	19971211
EP 1148061	A3	20040728		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
EP 1223174	A2	20020717	EP 2002-7309	19971211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
AT 225367	E	20021015	AT 1997-954126	19971211
NZ 510556	A	20021025	NZ 1997-510556	19971211
ES 2186017	T3	20030501	ES 1997-954126	19971211
ZA 9805088	A	19990611	ZA 1998-5088	19980611
NO 9902825	A	19990729	NO 1999-2825	19990610
AU 747959	B2	20020530	AU 2000-18440	20000221
US 2002038021	A1	20020328	US 2000-732208	20001207
US 2002045746	A1	20020418	US 2000-732209	20001207
US 2003055274	A1	20030320	US 2002-112355	20020329
US 6610844	B2	20030826		
PRIORITY APPLN. INFO.:			US 1996-33315P P	19961211

US 1997-49388P	P	19970611
US 1995-8455P	P	19951211
US 1996-763910	A3	19961211
EP 1997-954126	A3	19971211
NZ 1997-336004	A1	19971211
WO 1997-US23090	W	19971211
US 1999-246204	A2	19990208
US 1999-246908	A3	19990209
US 1999-169556P	P	19991208
US 1999-169608P	P	19991208
US 1999-169639P	P	19991208
US 1999-169682P	P	19991208
US 1999-169683P	P	19991208
US 1999-169690P	P	19991208
US 1999-169707P	P	19991208
US 1999-169807P	P	19991208
US 1999-319673	A2	19991213
US 2000-583137	A2	20000530
US 2000-583158	A2	20000530

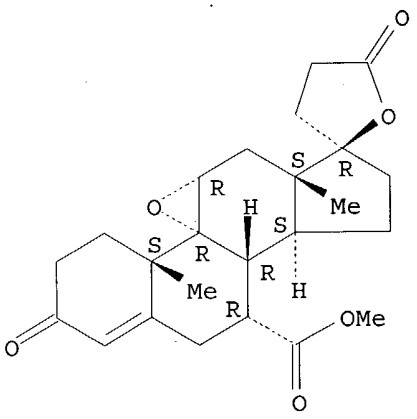
OTHER SOURCE(S): CASREACT 129:81885; MARPAT 129:81885

IT **107724-20-9P 209253-80-5P 209253-81-6P 209253-82-7P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(processes for preparation of **9,11-epoxy steroids** and their intermediates)

RN 107724-20-9 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

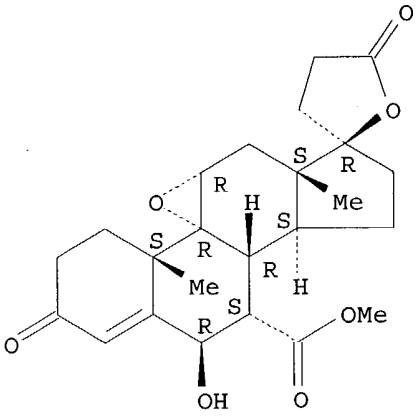
Absolute stereochemistry.



RN 209253-80-5 CAPLUS

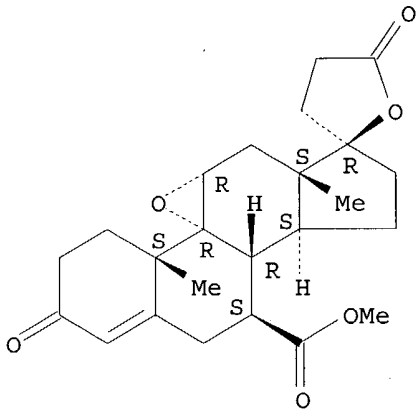
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-6,17-dihydroxy-3-oxo-, γ-lactone, methyl ester, (6β,7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



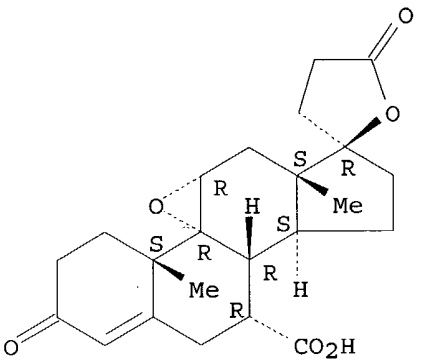
RN 209253-81-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7β,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 209253-82-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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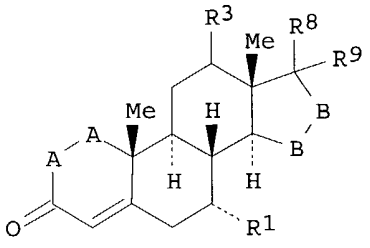

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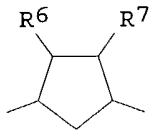

II

AB Multiple novel reaction schemes, novel process steps and novel intermediates are provided for the synthesis of epoxymexrenone and other compds. of formula (I) wherein: -A-A- represents the group -CHR4-CHR5- or -CR4=CR5-, R3, R4 and R5 are independently selected from the group consisting of hydrogen, halo, hydroxy, lower alkyl, lower alkoxy, hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl, cyano, aryloxy; R1 represents an alpha-oriented lower alkoxycarbonyl or hydroxyalkyl radical; -B-B- represents the group -CHR6-CHR7- or an alpha- or beta-oriented group (II), where R6 and R7 are independently selected from the group consisting of hydrogen, halo, lower alkoxy, acyl, hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl, alkyl, alkoxycarbonyl, acyloxyalkyl, cyano and aryloxy; and R8 and R9 are independently selected from the group consisting of hydrogen, hydroxy, halo, lower alkoxy, acyl, hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl, alkyl, alkoxycarbonyl, acyloxyalkyl, cyano and aryloxy, or R8 and R9 together comprise a carbocyclic or heterocyclic ring structure, or R8 or R9 together with R6 or R7 comprise a carbocyclic or heterocyclic ring structure fused to the pentacyclic D ring.

L8 ANSWER 28 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 4
ACCESSION NUMBER: 1997:511895 CAPLUS
DOCUMENT NUMBER: 127:120750
TITLE: Preparation of 7α-carboxyl- **9**, **11-epoxy steroids** and intermediates useful therein and a general process for the epoxidation of olefinic double bonds
INVENTOR(S): Ng, John S.; Wang, Ping T.; Baez, Julio A.; Liu, Chin; Anderson, Dennis K.; Lawson, Jon P.; Erb, Dernhard;

Wieczorek, Joseph; Mucciariello, Gennaro; Vanzanella, Fortunato; Kunda, Sastry A.; Letendre, Leo J.; Pozzo, Mark J.; Sing, Yuen-Lung L.
PATENT ASSIGNEE(S): G.D. Searle and Co., USA
SOURCE: PCT Int. Appl., 271 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 6
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9721720	A2	19970619	WO 1996-US20780	19961211
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2240388	AA	19970619	CA 1996-2240388	19961211
CA 2347345	AA	19970619	CA 1996-2347345	19961211
CA 2347346	AA	19970619	CA 1996-2347346	19961211
AU 9713551	A1	19970703	AU 1997-13551	19961211
AU 719260	B2	20000504		
CN 1209136	A	19990224	CN 1996-199961	19961211
US 5981744	A	19991109	US 1996-763910	19961211
EP 973791	A2	20000126	EP 1996-945103	19961211
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EP 1167380	A2	20020102	EP 2001-122428	19961211
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EP 1167381	A2	20020102	EP 2001-122429	19961211
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EP 1170299	A2	20020109	EP 2001-122427	19961211
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
JP 2002504077	T2	20020205	JP 1997-522304	19961211
AU 744223	B2	20020221	AU 2000-18439	20000221
US 2004067917	A1	20040408	US 2003-672680	20030926

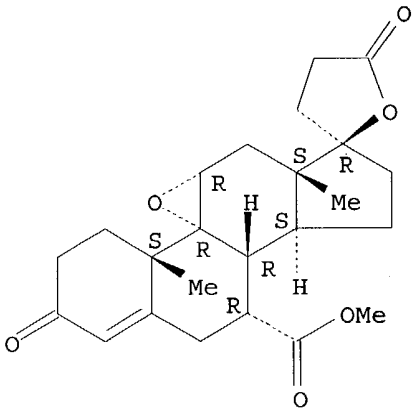
PRIORITY APPLN. INFO.:
US 1995-8455P P 19951211
US 1996-763910 A 19961211
EP 1996-945103 A3 19961211
WO 1996-US20780 W 19961211
US 1999-246908 A3 19990209
US 2000-583158 A3 20000530
US 2001-923977 A3 20010807

OTHER SOURCE(S): CASREACT 127:120750; MARPAT 127:120750

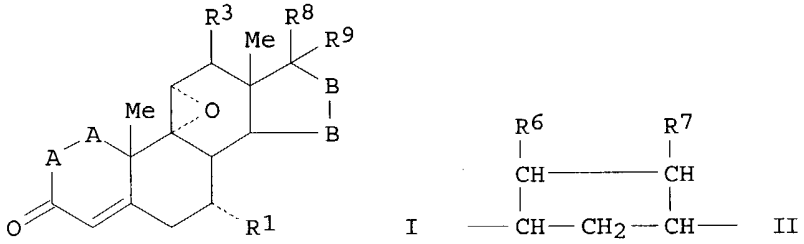
IT **107724-20-9P**
RL: BPN (Biosynthetic preparation); PUR (Purification or recovery); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of 7α-carboxyl- **9,11-epoxy steroids** and intermediates useful therein and a general process for the epoxidn. of olefinic double bonds)

RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



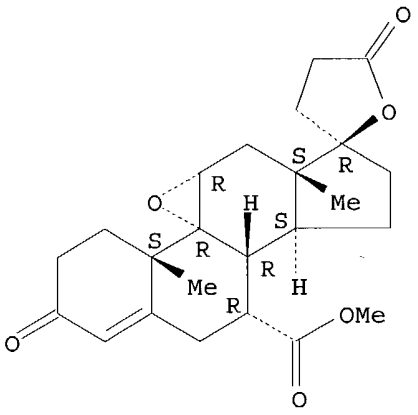
AB Multiple novel reaction schemes, novel process steps and novel intermediates are provided for the synthesis of epoxymexrenone and other compds. of formula (I), wherein -A-A- represents the group -CHR4-CHR5- or -CR4=CR5-; R3, R4 and R5 are independently selected from the group consisting of H, halo, OH, lower alkyl, lower alkoxy, hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl, CN, aryloxy; R1 represents an α-oriented lower alkoxycarbonyl or hydroxyalkyl radical; -B-B- represents the group -CHR6-CHR7- or an α- or β-oriented group of formula (II) where R6 and R7 are independently selected from the group consisting of H, halo, lower alkoxy, acyl, hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl, alkyl, alkoxycarbonyl, acyloxyalkyl, CN, aryloxy, and R8 and R9 are independently selected from the group consisting of H, halo, lower alkoxy, acyl, hydroxyalkyl, alkoxyalkyl, hydroxycarbonyl, alkyl, alkoxycarbonyl, acyloxyalkyl, CN, aryloxy, or R8 and R9 together comprise a carbocyclic or heterocyclic ring structure, or R8 or R9 together with R6 or R7 comprise a carbocyclic or heterocyclic ring structure fused to the pentacyclic D ring.

L8 ANSWER 29 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:240285 CAPLUS
DOCUMENT NUMBER: 126:277650
TITLE: Steroidal, aldosterone antagonists. Increased selectivity of 9α,11-epoxy derivatives
AUTHOR(S): Grob, Jurgen; Boillaz, Michel; Schmidlin, Julius; Wehrli, Hansuli; Wieland, Peter; Fuhrer, Hermann;

Rihs, Grety; Joss, Urs; De Gasparo, Marc; et al.
CORPORATE SOURCE: Research Dep., Ciba-Geigy Ltd., Basel, CH-4002, Switz.
SOURCE: Helvetica Chimica Acta (1997), 80(2), 566-585
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English

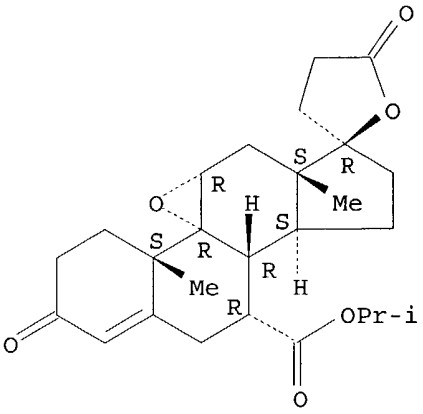
IT **107724-20-9P**, CGP 30083
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and aldosterone antagonistic activity of epoxy pregnanes)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



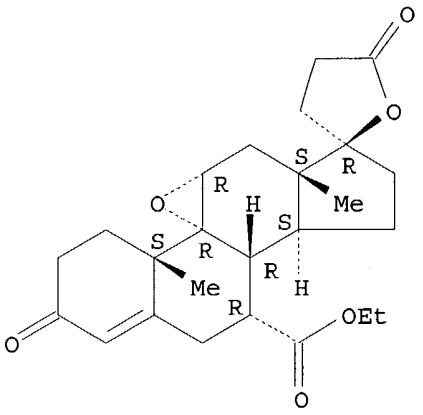
IT **95716-76-0P 95716-78-2P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and aldosterone antagonistic activity of epoxy pregnanes)
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



AB In the search for aldosterone antagonists with an optimal activity profile, 12 9α,11-epoxy **steroids** were prepared and compared with their 9α,11α-unsubstituted analogs in terms of steroid receptor binding in vitro and electrolyte excretion in vivo. Substitution of the parent structures by an epoxy group at positions 9α,11 resulted in marginal effects on mineralocorticoid receptor binding and electrolyte excretion, but greatly reduced androgen and gestagen receptor binding. This finding is reflected in the largely lacking unwanted anti-androgenic and gestagenic side effects in animal models of the 3 most interesting 9α,11-epoxy spiro lactones CGP 33033, CGP 29245, and CGP 30083.

L8 ANSWER 30 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:168547 CAPLUS
DOCUMENT NUMBER: 126:152803
TITLE: Epoxy-steroidal aldosterone antagonist and angiotensin II antagonist combination therapy for treatment of cardiovascular disorders, including congestive heart

failure

INVENTOR(S): Alexander, John C.; Schuh, Joseph R.; Gorczynski, Richard J.

PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Alexander, John C.; Schuh, Joseph R.; Gorczynski, Richard J.

SOURCE: PCT Int. Appl., 218 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9640257	A1	19961219	WO 1996-US9335	19960605
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
CA 2224079	AA	19961219	CA 1996-2224079	19960605
AU 9661577	A1	19961230	AU 1996-61577	19960605
AU 725689	B2	20001019		
EP 831910	A1	19980401	EP 1996-919170	19960605
EP 831910	B1	20011121		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
CN 1192697	A	19980909	CN 1996-196155	19960605
BR 9609066	A	19990126	BR 1996-9066	19960605
JP 11507627	T2	19990706	JP 1996-501678	19960605
NZ 310730	A	20010126	NZ 1996-310730	19960605
RU 2166330	C2	20010510	RU 1998-100250	19960605
IL 122242	A1	20010724	IL 1996-122242	19960605
AT 209047	E	20011215	AT 1996-919170	19960605
ES 2167571	T3	20020516	ES 1996-919170	19960605
PT 831910	T	20020531	PT 1996-919170	19960605
RO 118046	B1	20030130	RO 1997-2272	19960605
PL 185150	B1	20030331	PL 1996-324001	19960605
US 6653306	B1	20031125	US 1997-781786	19970109
NO 9705741	A	19980129	NO 1997-5741	19971205
PRIORITY APPLN. INFO.:			US 1995-486456 A	19950607
			WO 1996-US9335 W	19960605

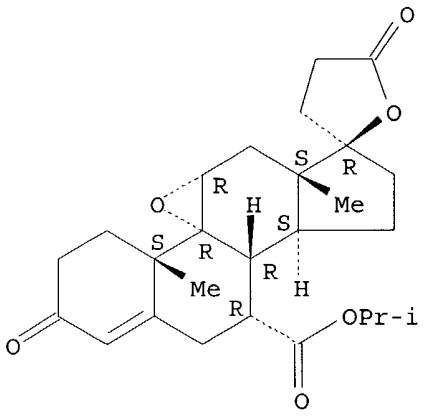
OTHER SOURCE(S): MARPAT 126:152803

IT **95716-76-0 95716-78-2 95716-98-6**
95716-99-7 95717-02-5 107724-20-9
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(epoxy-steroidal aldosterone antagonist and angiotensin II antagonist combination therapy for treatment of cardiovascular disorders, including congestive heart failure)

RN 95716-76-0 CAPLUS

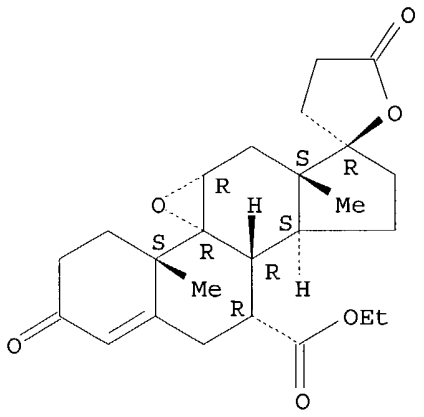
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



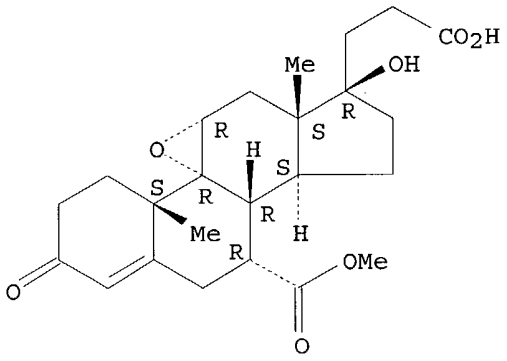
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

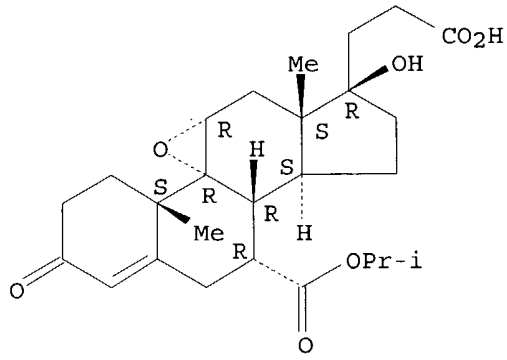
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

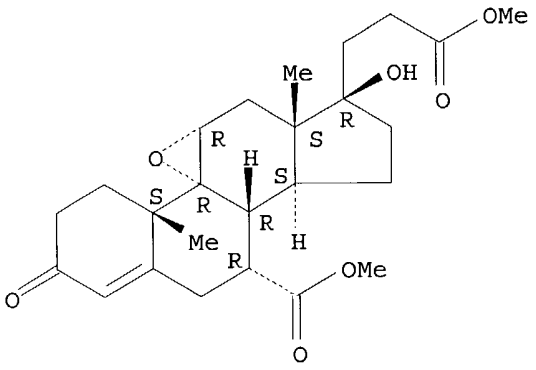
Absolute stereochemistry.



● K

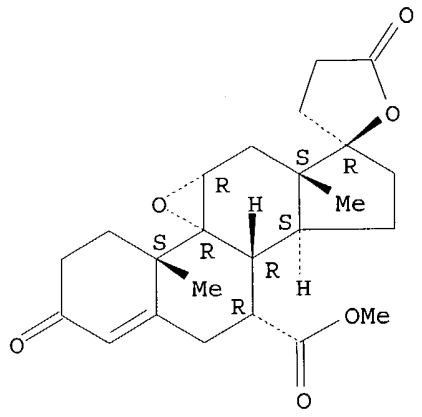
RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



AB A combination therapy comprising a therapeutically-effective amount of an epoxy-steroidal aldosterone receptor antagonist and a therapeutically-effective amount of an angiotensin II receptor antagonist is described for treatment of circulatory disorders, including cardiovascular disorders, e.g. hypertension and congestive heart failure. Preferred angiotensin II receptor antagonists are those compds. having high potency and bioavailability and which are characterized in having an imidazole or triazole moiety attached to a biphenylmethyl or pyridinyl/phenylmethyl moiety. Preferred epoxy-steroidal aldosterone receptor antagonists are 20-spiroxane steroidal compds. characterized by the presence of 9α,11α-substituted epoxy moiety. A preferred combination therapy includes the angiotensin II receptor antagonist 5-[2-[5-[(3,5-dibutyl-1H-1,2,4-triazol-1-yl)methyl]-2-pyridinyl]phenyl]-1H-tetrazole and the aldosterone receptor antagonist epoxymexrenone.

L8 ANSWER 31 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:140243 CAPLUS
DOCUMENT NUMBER: 126:139886
TITLE: Method to treat cardiofibrosis or cardiac hypertrophy with a combination therapy of an angiotensin II

antagonist and an epoxy-steroidal aldosterone antagonist

INVENTOR(S): Egan, James J.; Mcmahon, Ellen G.; Olins, Gillian M.; Schuh, Joseph R.

PATENT ASSIGNEE(S): G.D. Searle and Co., USA; Egan, James J.; Mcmahon, Ellen G.; Olins, Gillian M.; Schuh, Joseph R.

SOURCE: PCT Int. Appl., 202 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

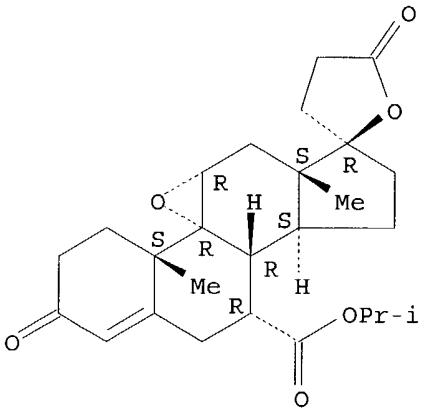
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9640255	A2	19961219	WO 1996-US8709	19960605
WO 9640255	A3	19970123		
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA				
AU 9660392	A1	19961230	AU 1996-60392	19960605
PRIORITY APPLN. INFO.:			US 1995-486085	19950607
			WO 1996-US8709	19960605

IT **95716-76-0 95716-78-2 95716-98-6**
95716-99-7 95717-02-5 107724-20-9
RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(angiotensin II antagonist and epoxy-steroidal aldosterone antagonist combination for treatment of cardiofibrosis or cardiac hypertrophy)

RN 95716-76-0 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

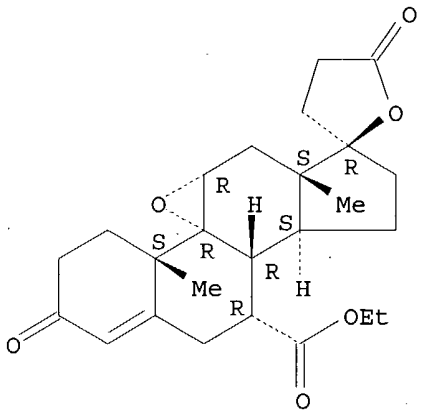


RN 95716-78-2 CAPLUS

CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA

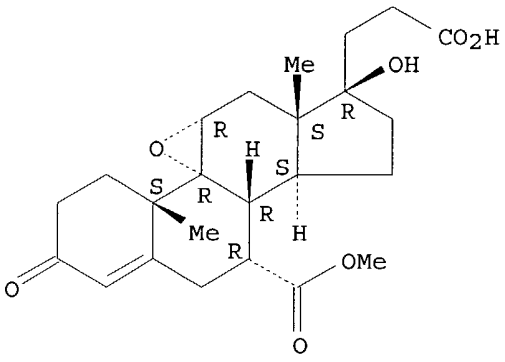
INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

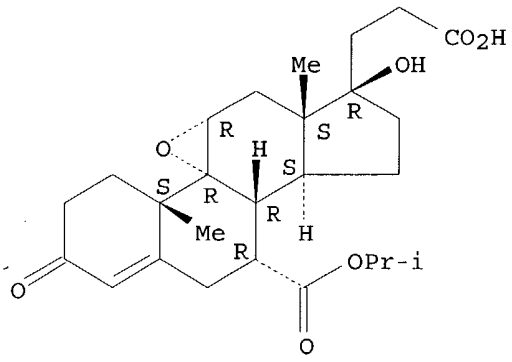
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

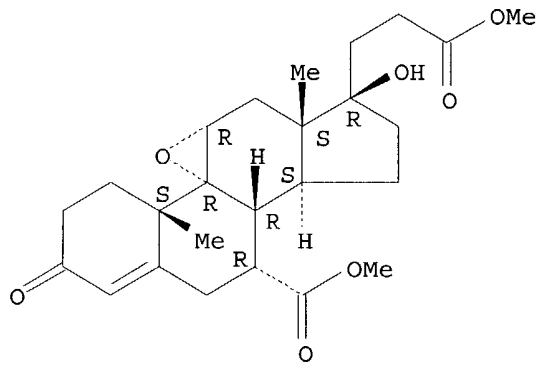
Absolute stereochemistry.



● K

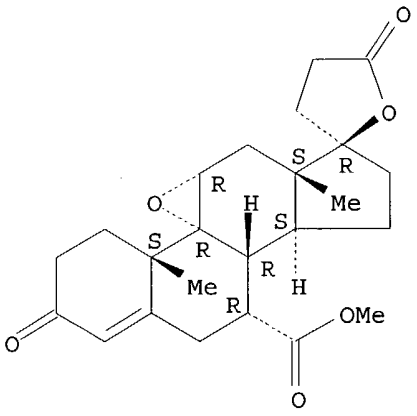
RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

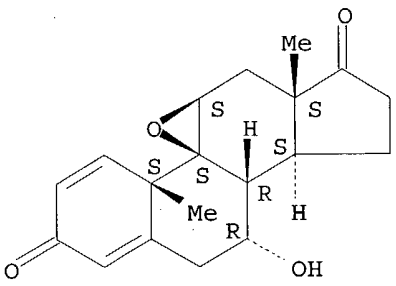
Absolute stereochemistry.



AB A therapeutic method is described for treating cardiofibrosis or cardiac hypertrophy using a combination therapy comprising a therapeutically effective amount of an epoxy-steroidal aldosterone receptor antagonist and a therapeutically-effective amount of an angiotensin II receptor antagonist. Preferred angiotensin II receptor antagonists are those compds. having high potency and bioavailability and which are characterized in having an imidazole or triazole moiety attached to a biphenylmethyl or pyridinyl/phenylmethyl moiety. Preferred epoxy-steroidal aldosterone receptor antagonists are 20-spiroxane steroidal compds. characterized by the presence of a 9α,11α-substituted epoxy moiety. A preferred combination therapy includes the angiotensin II receptor antagonist 5-[2-[5-[(3,5-dibutyl-1H-1,2,4-triazol-1-yl)methyl]-2-pyridinyl]phenyl]-1H-tetrazole and the aldosterone receptor antagonist epoxymexrenone.

L8 ANSWER 32 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:14188 CAPLUS
DOCUMENT NUMBER: 122:240124
TITLE: Investigations into the alkaline instability of 7α-hydroxy metabolites of tipredane
AUTHOR(S): Crew, Jacqueline; Euerby, Melvin R.; Johnson, Christopher M.; Morlin, Andrew J. G.; Thomson, Colin
CORPORATE SOURCE: Res. Dev. Lab., Fisons Pharm., Leicestershire, LE11 0RH, UK
SOURCE: Analytical Proceedings (1994), 31(4), 127-30
CODEN: ANPRDI; ISSN: 0144-557X
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **162125-01-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(alkaline degradation of 7α-hydroxy metabolites of tipredane)
RN 162125-01-1 CAPLUS
CN Androsta-1,4-diene-3,17-dione, 9,11-epoxy-7-hydroxy-, (7α,9β,11β)- (9CI) (CA INDEX NAME)

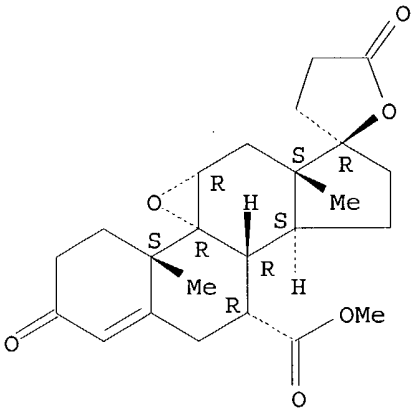
Absolute stereochemistry.



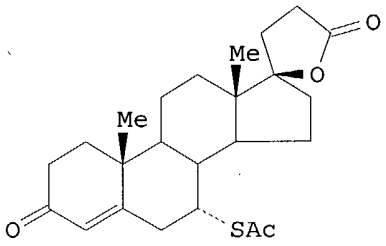
AB The reaction of the rodent metabolites of tipredane with sodium hydroxide has been investigated. The major degradant has been characterized as a 9,11β-epoxide and represents the first reported case of the elimination of hydrogen fluoride from 9α-fluoro-11β-hydroxy substituted **steroids.** The 7α-hydroxy moiety in these metabolites has been shown to promote the hydrogen fluoride elimination reaction in the presence of sodium hydroxide. The rate of hydrogen fluoride elimination vs. dehydration of the 7α-hydroxy substituent is influenced by the sodium hydroxide concentration and the solvent composition

L8 ANSWER 33 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:128777 CAPLUS
DOCUMENT NUMBER: 110:128777
TITLE: Antialdosterones: incidence and prevention of sexual side effects
AUTHOR(S): De Gasparo, M.; Whitebread, S. E.; Preiswerk, G.; Jeunemaitre, X.; Corvol, P.; Menard, J.
CORPORATE SOURCE: Pharm. Div., CIBA-GEIGY Ltd., Basel, Switz.
SOURCE: Journal of Steroid Biochemistry (1989), 32(1B), 223-7
CODEN: JSTBBK; ISSN: 0022-4731
DOCUMENT TYPE: Journal
LANGUAGE: English
IT **107724-20-9**
RL: BIOL (Biological study)
(as antialdosterone antihypertensive, potassium and sodium of urine response to, in human)
RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



GI



I

AB The use of spironolactone in the treatment of hypertension has been limited by the occurrence of sexual effects, mainly menstrual disturbances in women and gynecomastia in men. To minimize this limitation on the use of an effective K-sparing antihypertensive agent, 2 strategies were proposed: a decrease in the daily dose of spironolactone and improvement in the receptor-binding specificity of spironolactone. In 182 patients with essential hypertension treated with spironolactone alone for a mean follow-up period of 23 mo, daily doses of 75-100 mg were as effective on blood pressure as doses of 150-300 mg. In contrast, the development of gynaecomastia (91 cases among 699 men) was dose-related in 6.9% (50 mg/day) to 52.2% (≥150 mg/day) of the cases. Two 9α,11α-epoxy derivs. were characterized in vitro in rats and in rabbits. They exhibited a 3-10-fold decrease of the antiandrogenic and progestagenic effect, compared with spironolactone. In humans, 1 of these derivs., epoxymexrenone (I) counteracted the fall in urinary Na/K ratio induced by 9α-fluorohydrocortisone at a 25 mg dose.

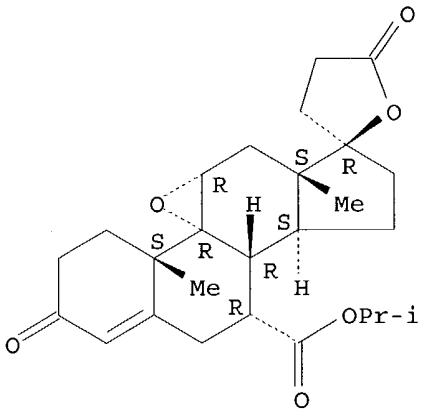
L8 ANSWER 34 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1985:149622 CAPLUS
DOCUMENT NUMBER: 102:149622
TITLE: 20-Spiroxanes and analogs with open ring E
INVENTOR(S): Grob, Juergen; Kalvoda, Jaroslav
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 57 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 122232	A1	19841017	EP 1984-810179	19840410
EP 122232	B1	19881214		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
FI 8401400	A	19841014	FI 1984-1400	19840409
FI 77669	B	19881230		
FI 77669	C	19890410		
US 4559332	A	19851217	US 1984-598109	19840409
AT 39256	E	19881215	AT 1984-810179	19840410
ES 531517	A1	19851201	ES 1984-531517	19840411
DD 233375	A5	19860226	DD 1984-276211	19840411
CA 1220781	A1	19870421	CA 1984-451691	19840411
IL 71504	A1	19870731	IL 1984-71504	19840411
DD 251144	A5	19871104	DD 1984-261867	19840411
DK 8401894	A	19841014	DK 1984-1894	19840412
DK 163988	B	19920427		
DK 163988	C	19920921		
NO 8401465	A	19841015	NO 1984-1465	19840412
NO 159800	B	19881031		
NO 159800	C	19890208		
AU 8426853	A1	19841018	AU 1984-26853	19840412
AU 565017	B2	19870903		
ZA 8402710	A	19841128	ZA 1984-2710	19840412
JP 59231100	A2	19841225	JP 1984-71900	19840412
JP 02012479	B4	19900320		
HU 33814	O	19841228	HU 1984-1435	19840412
HU 191406	B	19870227		
ES 544768	A1	19870501	ES 1985-544768	19850701
ES 544769	A1	19870501	ES 1985-544769	19850701
ES 544770	A1	19870501	ES 1985-544770	19850701
PRIORITY APPLN. INFO.:			CH 1983-1981	19830413
			EP 1984-810179	19840410

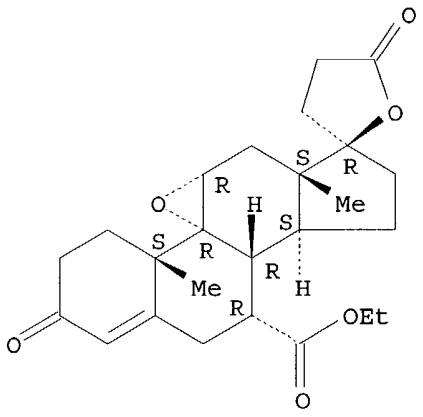
IT **95716-76-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and saponification of)
RN 95716-76-0 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, 1-methylethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



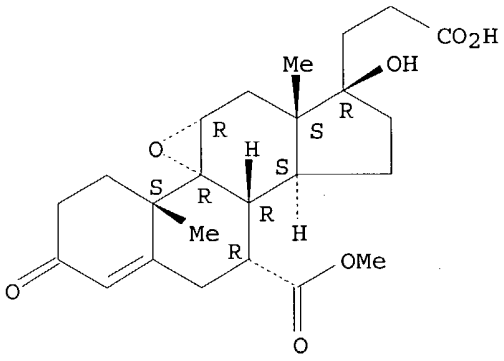
IT **95716-78-2P 95716-98-6P 95716-99-7P**
95717-02-5P 107724-20-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 95716-78-2 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, ethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 95716-98-6 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-methyl ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

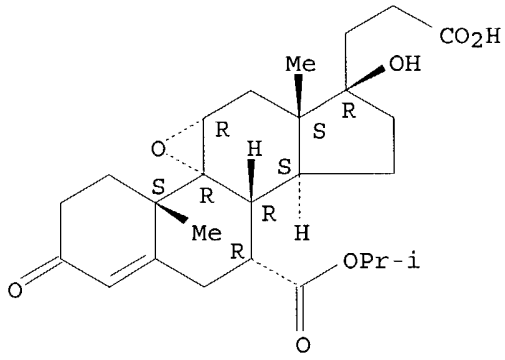
Absolute stereochemistry.



● K

RN 95716-99-7 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, 7-(1-methylethyl) ester, monopotassium salt, (7α,11α,17α)- (9CI) (CA INDEX NAME)

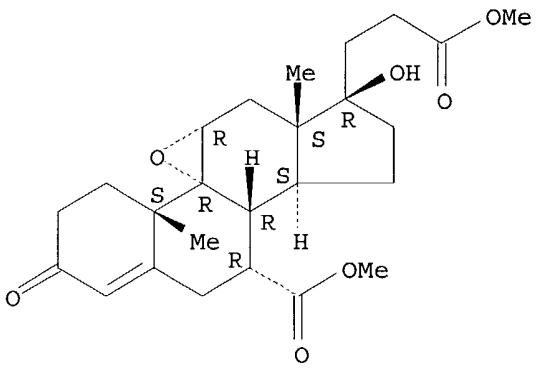
Absolute stereochemistry.



● K

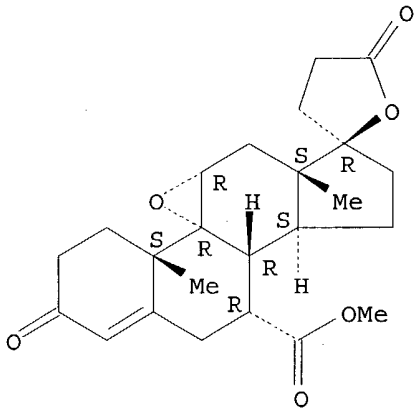
RN 95717-02-5 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, dimethyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

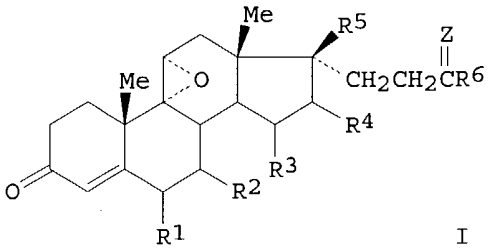


RN 107724-20-9 CAPLUS
CN Pregn-4-ene-7,21-dicarboxylic acid, 9,11-epoxy-17-hydroxy-3-oxo-, γ-lactone, methyl ester, (7α,11α,17α)- (9CI) (CA INDEX NAME)

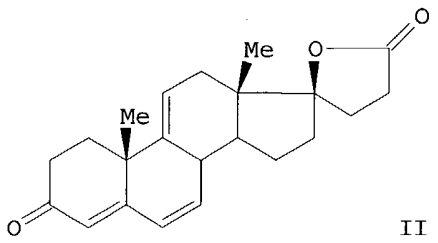
Absolute stereochemistry.



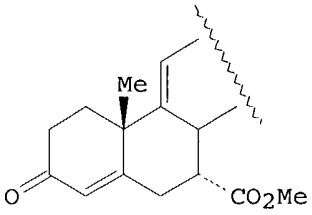
GI



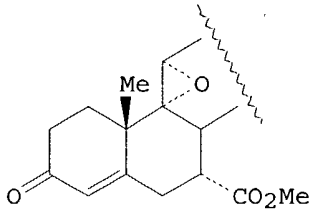
I



II



III



IV

AB Aldosterone antagonists (no data) I [R1 = H, R2 = α-alkoxycarbonyl, R1R2 = CH2; R3 = R4 = H, R3R4 = CH2; Z = H2, O; R5R6 = O; R5 = HO; R6 = HO, alkoxy, acyloxy; C(Z)R6 = CO2H salts; optionally 1-unsatd.] were prepared from spiroxenones. Thus, spiroxatrienedione II underwent successive hydrocyanation, reduction-hydrolysis, oxidation, and esterification to give acid ester III, which was epoxidized by 3-ClC6H4C(O)O2H to give IV.

L8 ANSWER 35 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN

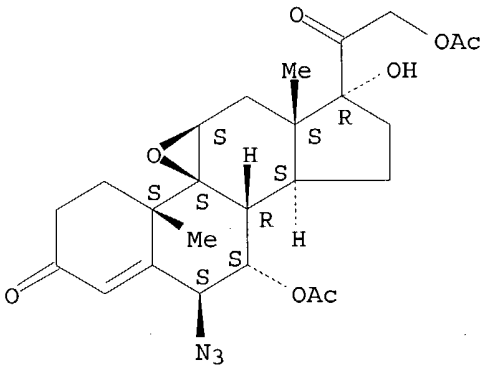
ACCESSION NUMBER: 1972:127273 CAPLUS
DOCUMENT NUMBER: 76:127273
TITLE: Pharmacologically active 6-azidopregn-4-ene-3,20-diones
INVENTOR(S): Teutsch, Jean G.; Rausser, Richard C.; Shapiro, Elliot L.; Herzog, Hershel L.
PATENT ASSIGNEE(S): Scherico Ltd.
SOURCE: Ger. Offen., 197 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2136655	A	19720127	DE 1971-2136655	19710722
US 3665017	A	19720523	US 1970-58162	19700724
CH 596235	A	19780315	CH 1971-10709	19710720
ZA 7104895	A	19720927	ZA 1971-4895	19710722
DD 94811	C	19730112	DD 1971-156667	19710722
AU 7131568	A1	19730125	AU 1971-31568	19710722
AT 307641	B	19730525	AT 1971-6374	19710722
DK 130150	B	19741230	DK 1971-3612	19710722
SE 384215	B	19760426	SE 1971-9443	19710722
NO 136577	B	19770620	NO 1971-2790	19710722
BE 770378	A1	19720124	BE 1971-106246	19710723
NL 7110181	A	19720126	NL 1971-10181	19710723
FR 2100952	A1	19720324	FR 1971-27054	19710723

FR 2100952	A5	19720324		
GB 1352267	A	19740508	GB 1971-34587	19710723
FI 50129	B	19750901	FI 1971-2102	19710723
CA 983016	A1	19760203	CA 1971-119008	19710723
US 3784603	A	19740108	US 1972-271463	19720713
DK 135132	B	19770307	DK 1973-3195	19730608
CA 983017	A2	19760203	CA 1974-197885	19740419
CA 992951	A2	19760713	CA 1974-197884	19740419
PRIORITY APPLN. INFO.:			US 1970-58162	19700724
			US 1970-59367	19700729
			DK 1971-3612	19710722
			CA 1971-119008	19710723

IT **35862-83-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 35862-83-0 CAPLUS
CN Pregn-4-ene-3,20-dione, 7,21-bis(acetyloxy)-6-azido-9,11-epoxy-17-hydroxy-, (6β,7α,9β,11β)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



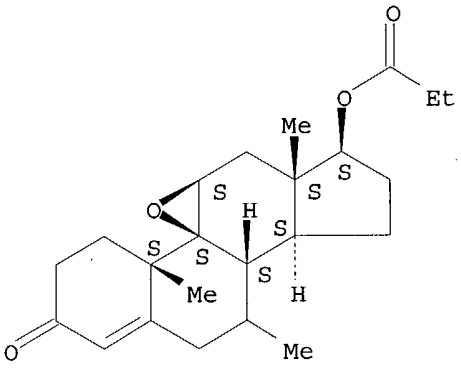
GI For diagram(s), see printed CA Issue.
AB The 6-azido-4,6-pregnadiene-3,20-diones I (R = H, OH, Cl, F; R1 = H, Ac; R2 = H, α-Me, β-Me; X = H, F) and some related 11-oxo-compds., 7α-acetoxy-4-pregnenes, 7α-acetoxy-4,9(11)-pregnadienes, and 1,4-pregnadienes were prepared They had antiinflammatory and mineralocorticoid activity. In the systemic pouch test II was .apprx.15 times as active as 6-dehydrocortisone 21-acetate. I (R = OH, R1 = Ac, R2 = H, X = H) was prepared by epoxidizing 11β,17α,-21-trihydroxy-4,6-pregnadiene-3,20-dione 21 acetate, treating the epoxide with NaN3, acetylating the 7α-hydroxy group, and oxidizing with Me4NF.

L8 ANSWER 36 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 5
ACCESSION NUMBER: 1968:3127 CAPLUS
DOCUMENT NUMBER: 68:3127
TITLE: 7-Methyltestosterones
INVENTOR(S): Babcock, John C.; Campbell, J. Allan
PATENT ASSIGNEE(S): Upjohn Co., USA
SOURCE: U.S., 18 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 334155		19670912	US	19610605

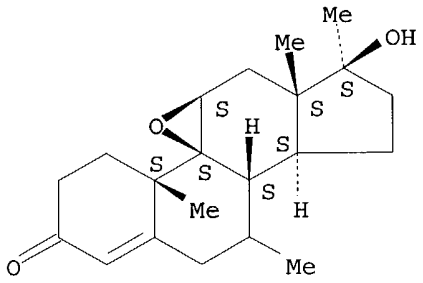
IT **17000-70-3P 17000-71-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 17000-70-3 CAPLUS
CN 9β-Androst-4-en-3-one, 9,11β-epoxy-17β-hydroxy-7-methyl-, propionate (6CI, 8CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 17000-71-4 CAPLUS
CN 9β-Androst-4-en-3-one, 9,11β-epoxy-17β-hydroxy-7,17-dimethyl- (6CI, 7CI, 8CI) (CA INDEX NAME)

Absolute stereochemistry.



AB Compds. with anabolic, androgenic, antiestrogenic, gonadotropin-inhibiting, progestational, growth-promoting, anti-fertility, and central nervous system depressant activity were prepared as follows. 11β-Hydroxy-17α-methyltestosterone (5 g.) (CA 50: 7159b), 25 cc. Ac2O, and 100 mg. p-TsOH (Ts = tosyl) in toluene were refluxed under N 4.5 hrs., the product treated with NaBH4 3 days at 5°, followed by reaction with LiAlH4 gave 1.2 g. 17α-methyl-5-androstene-3β,11β,17β-triol (I), m. 230-5°; [α]D -68° (dioxane). 11α-Hydroxy-17-methyltestosterone (1 g.) in pyridine was treated with 1 g. p-TsCl to give 11α-(p-tolylsulfonyloxy)-17-methyltestosterone, which was refluxed with HCO2Na 19 hrs. to give 9(11)-dehydro-17-methyltestosterone. I (2 g.) and 12 g. p-quinone in PhMe was refluxed with 2 g. Al(OBu-tert)3 for 50 min. and chromatographed to give 0.4 g. 11β-hydroxy-17α-methyl-6-dehydrotestosterone, m. 246-54°; [α]D 150° (CHCl3).

Similarly prepared were 6-dehydro-17-methyltestosterone (II), m. 182-91°; [α]D 21° (CHCl3). Using chloranil, 11β-hydroxy-testosterone was converted to the 6-dehydro derivative II (2 g.) was treated with a mixture of 0.4 g. Cu2Cl2 and 20 cc. 4M MeMgBr in Et2O in tetrahydrofuran for 4 hrs. and the product chromatographed to give 1 g. of a mixture of the 7-epimers of 7,17-dimethyltestosterone, m. 120-40°; [α]D 55° (CHCl3). Separation of the epimers was effected by recrystn. and reaction with chloranil to give the 7α-epimer, m. 163-5°, and the 7β-epimer, m. 127-9°. Similarly prepared were the 7-epimers of 7,17-dimethyl-11β-hydroxytestosterone, m. 218-24°, and separation as before gave the 7β-epimer, m. 242-6° (decomposition); [α]D 105° (CHCl3); and by reaction with chloranil to give a residue, 7,17-dimethyl-11β-hydroxy-6-dehydrotestosterone, m. 242-4°; [α]D 310° (CHCl3), and the 7α-epimer, m. 225-30°; and 7α,17-dimethyl-9(11)-dehydrotestosterone, m. 172-6° [obtained from 7α,17α-dimethyl-11α-hydroxytestosterone, m. 230-4.5°; [α]D 81° (CHCl3)]. 7α,17α-Dimethyltestosterone (8 g.), 8 g. Hg, 6.5 cc. HOAc, 5 g. SeO2, and 300 cc. tert-BuOH was refluxed under N for 4 hrs. to give, after chromatog., 1-dehydro-7α,17α-dimethyltestosterone, m. 153-6°; [α]D -6° (CHCl3). 7-Methyl-11β-hydroxytestosterone (III) (1 g.) was acetylated to give the 17-acetate. III (0.3 g.) in benzene was stirred with 0.3 cc. BzCl and 0.3 cc. pyridine for 17 hrs. at 25° to give the 17-benzoate. This compound (1.5 g.) in 80 cc. HOAc was oxidized with 0.74 g. CrO3 to give 7-methyl-11-oxotestosterone 17-benzoate. Similarly prepared was 7-methyl-11-oxotestosterone 17-acetate. 7-Methyl-11-oxotestosterone 17-propionate (1 g.) in 50 cc. N alc. KOH containing 3 cc. H2O was refluxed 0.5 hr. to give 7-methyl-11-oxotestosterone. III (2.5 g.), 250 cc. C6H6, 200 cc. Et2O, 100 cc. concentrated HCl, and 100 cc. H2O was refluxed 18 hrs. to give 17-methyl-9(11)-dehydrotestosterone (IV). IV (250 mg.) in C6H6 was converted to the 17-propionate (V). Similarly prepared was the 17-(β-cyclopentyl-propionate) derivative of IV. V (2 g.) in Me2CO was cooled to 15° and treated with 2 g. N-bromoacetamide in H2O, followed by 10 cc. 0.8N HClO4 to give 7-methyl-9α-bromo-11β-hydroxytestosterone 17-propionate (VI). Similarly prepared were 7-methyl-9α-chloro-11β-hydroxytestosterone 17-propionate, and 7,17-dimethyl 9α-bromo-11β-hydroxytestosterone. VI (1.36 g.) in MeOH was titrated with 0.1N aqueous NaOH to give 7-methyl-9β,11β-epoxytestosterone 17-propionate (VII). Similarly prepared was 7,17-dimethyl-9β,11β-epoxytestosterone. VII (1.13 g.) in CHCl3 was treated with HF in CHCl3 at -15° to give 7-methyl-9α-fluoro-11β-hydroxytestosterone 17-propionate. This compound (0.779 g.) in HOAc was treated with 0.37 g. CrO3 in HOAc to give 7-methyl-9α-fluoro-11-oxotestosterone 17-propionate, which in turn was treated with alc. KOH to give 7-methyl-9α-fluoro-11-oxotestosterone. 6-Dehydro-19-nortestosterone 17-acetate (3 g.) was treated with 3M MeMgBr and 0.4 g. Cu2Br2 to give 7α-methyl-19-nortestosterone 17-acetate, m. 111-14°; [α]D 48° (CHCl3). This product was deacetylated with aqueous K2CO3 to give 7α-methyl-19-nortestosterone, m. 145-6°; [α]D 55° (CHCl3). This compound (1.4 g.) was oxidized with CrO3 to give 7α-methyl-19-nor-4-androstene-3,17-dione, m. 201-4°; and the product (10 mg.) in MeOH was treated with pyrrolidine to give 7α-methyl-19-nor-4-androstene-3,17-dione 3-pyrrolidinyl enamine (VIII), m. 151-60°. VII (0.5 g.) was treated 5 hrs. with NaC.tplbond.CH in xylene to give 0.161 g. 7α-methyl-17α-ethynyl-19-nortestosterone (IX), m. 197-9.5°. Also prepared was the 17-acetate. IX was hydrogenated over Pd/C to give 17α-ethyl-7α-methyl-19-nortestosterone, m.

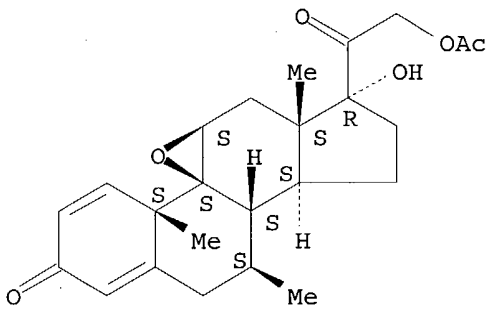
138-9°. VIII (2.75 g.) was reacted with 3M MeMgBr to give 7α,17α-dimethyl-19-nortestosterone (X) which was then treated with Rhizopus nigricans ATCC 6227b to give 7α,17α-dimethyl-11α-hydroxy-19-nortestosterone (XI). X was similarly treated with Cunninghamella blakesleeana ATCC 8688b to give the 11β-isomer of XI. CrO3-HOAc converted XI to 7α,17α-dimethyl-11-oxo-19-nortestosterone. To 1.6 g. 7α-methyl-11β-hydroxy-19-nortestosterone in PhMe and cyclohexanone was added 1.5 g. Al(OBu-tert)3 to give 7α-methyl-11β-hydroxy-19-nor-4-androstene-3,17-dione. 7α-Methyltestosterone (20 g.) was treated with 20 g. Na2Cr2O7 in HOAc to give 15.6 g. 7α-methyl-4-androstene-3,17-dione, m. 194-6°; [α]D 196° (CHCl3). The product was dissolved in hot MeOH and treated under N with pyrrolidine to give the 3-pyrrolidyl enamine, m. 199-205° (decomposition); [α]D -190° (pyridine). The compound thus prepared was treated with NaC.tplbond.CH as before to give 7α-methyl-17α-ethynyltestosterone, m. 191-3°; [α]D 41° (CHCl3). Hydrogenation converted the latter product to 7α-methyl-17α-ethyltestosterone, m. 140.5-3.0°. This compound was treated to give the 17-propionate. Uv and ir spectral data are given for the compds.

L8 ANSWER 37 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1963:66717 CAPLUS
DOCUMENT NUMBER: 58:66717
ORIGINAL REFERENCE NO.: 58:11449g-h,11450a-e
TITLE: **Steroids**
PATENT ASSIGNEE(S): Upjohn Co.
SOURCE: 19 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 898492		19620614	GB	
FR 1430064			FR	
PRIORITY APPLN. INFO.:			US	19590819

IT **98423-60-0**, 9β-Pregna-1,4-diene-3,20-dione, 9,11β-epoxy-17,21-dihydroxy-7β-methyl-, 21-acetate
(preparation of)
RN 98423-60-0 CAPLUS
CN 9β-Pregna-1,4-diene-3,20-dione, 9,11β-epoxy-17,21-dihydroxy-7β-methyl-, 21-acetate (7CI) (CA INDEX NAME)

Absolute stereochemistry.



GI For diagram(s), see printed CA Issue.

10/608,101

AB Prepns. of 7-methyl-9α-halo-11-oxygenated-17α,21-dihydroxy-1,4-pregnadiene-3,20-diones and the 21-acylates was described. 7β-Methyl-9α-fluoro-11β,17α,21-trihydroxy-4-pregnene-3,20-dione (1 g.) and 0.5 g. 3-oxobisnor-4-cholen-22-al (I) in 16 ml. HCONMe2 incubated 72 hrs. at 28° in a broth containing Septomyxa affinis and the product chromatographed on Florisil gave 7β-methyl-9α-fluoro-11β,17α,21-trihydroxy-1,4-pregnadiene-3,20-dione (II). The 9α-chloro analog of II was similarly obtained. Other species also served to introduce the Δ1-bond. Similar incubation of 1 g. 7β-methyl-9α-fluoro-17α,21-dihydroxy-4-pregnene-3,11,20-trione with I and the product chromatographed on Florisil gave 7β-methyl-9α-fluoro-17α,21-dihydroxy-1,4-pregnadiene-3,11,20-trione (III). Similarly the 9α-chloro analog of III was obtained. 7α-Methyl-9α-fluoro-11β,17α,21-trihydroxy-4-pregnene-3,20-dione similarly afforded 7α-methyl-9α-fluoro-11β,17α,21-trihydroxy-1,4-pregnadiene-3,20-dione (IV). The 9α-chloro analog of IV was similarly obtained. Likewise 7α-methyl-9α-fluoro-17α,21-dihydroxy-4-pregnene-3,11,20-trione gave 7α-methyl-9α-fluoro-17α,21-dihydroxy-1,4-pregnadiene-3,11,20-trione (V). The 9α-chloro analog of V was also obtained. II (50 mg.) left 21 hrs. at room temperature with C5H5N and Ac2O gave the 21-acetate. The 21-acetate of IV was similarly obtained. III and related **steroids** were similarly acetylated to give the 21-acetate. II left 20 hrs. at room temperature with succinic anhydride and C5H5N gave the 21-hemisuccinate. Other steroidal hemisuccinates were similarly prepared III also afforded the corresponding 21-hemisuccinate and other 21-esters. 7β-Methyl-9α-fluoro-11β,17α ,21-trihydroxy-4-pregnene-3,20-dione 21-acetate (100 mg.) in 6 ml. tert-BuOH and 0.55 ml. AcOH heated 24 hrs. at 75° with 30 mg. SeO2 and the product chromatographed on magnesium silicate gave II diacetate. Other compds. were similarly treated to give III, IV, and V 21-acetates, resp. II 21-acetate (1.1 g.), 1 g. KHCO3, 100 ml. MeOH, and 15 ml. H2O stirred 5 hrs. at 25° under N and the product chromatographed gave free II. Other 21-acetates and 21-acylates were similarly converted to the corresponding 21-hydroxy compds. 7β-Methyl-11β, 17α,21-trihydroxy-1,4-pregnadiene-3,20-dione 21-acetate (1.05 g.) in C5H5N treated 15 min. at 5° with 0.517 g. N-bromoacetamide gave 7β-methyl-17α-hydroxy-21-acetoxy-1,4,9-(11)-pregnatriene-3,20-dione (VI). VI (1.27 g.) in 19.5 ml. CH2Cl2, 38 ml. tert-BuOH, and treated 15 min. with 3 ml. 72% HClO4 in 22.5 ml. H2O, followed by 0.55 g. N-bromoacetamide in 9.6 ml. tert-BuOH gave 7β-methyl-9α-bromo-11β,17α-dihydroxy-21-acetoxy-1,4-pregnadiene-3,20-dione (VII). VII (1.749 g.), 1.749 g. KOAc, and 50 ml. Me2CO stirred under reflux 18 hrs. gave 7β-methyl-9,11β-epoxy-17α,21-dihydroxy-1,4-pregnadiene-3,20-dione 21-acetate (VIII). Other epoxy **steroids** may be similarly prepared VIII (2.276 g.) in 9 ml. tetrahydrofuran and 28 ml. CH2Cl2 left 17 hrs. at 0-5° with 5.2 g. HF, the mixture poured into 500 ml. H2O and 25 g. NaHCO3, stirred, extracted with CH2Cl2, and the product chromatographed on magnesium silicate gave II acetate. Other related compds. were similarly prepared II acetate (1.4 g.) in 140 ml. MeOH stirred 5 hrs. with 1.4 g. KHCO3 in 17.5 ml. H2O gave II. Other related compds. were similarly hydrolyzed.

L8 ANSWER 38 OF 38 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1961:93671 CAPLUS
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ORIGINAL REFERENCE NO.: 55:17694e-h
TITLE: 7β,17α-Dimethyl-4,6-androstadien-3-ones
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

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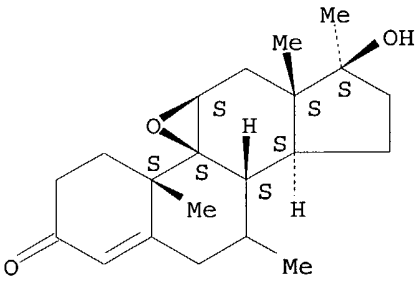
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 863662		19610322	GB	

IT **17000-71-4**, 9β-Androst-4-en-3-one, 9,11β-epoxy-17β-hydroxy-7,17-dimethyl-
(preparation of)
RN 17000-71-4 CAPLUS
CN 9β-Androst-4-en-3-one, 9,11β-epoxy-17β-hydroxy-7,17-dimethyl- (6CI, 7CI, 8CI) (CA INDEX NAME)

Absolute stereochemistry.



AB 3β,17β-Dihydroxy-17α-methyl-5-androstene 3-acetate in pyridine treated with (F3CCO)2O gave the 17-trifluoroacetate (X), m. 116-18°, [α]D -63° (CHCl3). Similarly, 3β,11β,17β-trihydroxy-17α-methyl-5-androstene 3-acetate gave the 11β,17β-bis(trifluoroacetate) (XI). X in CCl4-HOAc-Ac2O heated with tert-Bu chromate gave 3β,17β-dihydroxy-17α-methyl-5-androsten-7-one 3-acetate 17-trifluoroacetate (XII). Similarly, XI was oxidized to 3β, 11β,17β-trihydroxy-17α-methyl-5-androsten-7-one 3-acetate 11,17-bis(trifluoroacetate) (XIII). XII with MeLi gave 3β,7,17β-trihydroxy-7,17α-dimethyl-5-androstene (XIV), converted to 3-acetate, m. 164-73°, and XIII was similarly converted to 3β,7,11β,17β-tetrahydroxy-7,17α-dimethyl-5-androstene (XV) and 3-acetate. XIV heated with Al(OCMe3)3 in cyclohexanone gave 7,17α-dimethyl-17β-hydroxy-4,6-androstadien-3-one (XVI), m. 91-102° (aqueous EtOH), [α]D 196° (CHCl3), and XV was similarly converted to 7,17α-dimethyl-11β,17β-dihydroxy-4,6-androstadien-3-one (XVII). XVII with Na2Cr2O7.2H2O in HOAc gave 7,17α-dimethyl-17β-hydroxy-4,6-androstadiene-3,11-dione (XVIII). XVI with Li in liquid NH3 gave 7β,17α-dimethyl-17β-hydroxy-4-androsten-3-one, m. 127-9° (Me2CO-C6H14), [α]D 57° (CHCl3). The 6,7-double bonds of XVII and XVIII are similarly saturated The new 7-Me **steroids** are primarily useful as anabolic agents.

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	208.88	364.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION

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